

CARD PART NUMBERS													PRODUCTION PRACTICE	
CARD DESCRIPTION	WHERE USED	CARD TYPE	LOGIC PAGE GROUP	CARD LOC	BASE E.C. 717492	OPT #1 E.C. 718556	MAND NO. 1 (CARD READER FEATURE ONLY) E.C. 718958	OPT NO. 2 E.C. 718969	OPT NO. 4 E.C. 739072	OPT NO. 5 E.C. 739065	OPT NO. 6 E.C. 739066	OPT NO. 7 E.C. 739071	OPT NO. 8 E.C. 739268	
KEYBOARD CONTROL #2	KEYBOARD ADAPTER	9072	KMIXX	A2 *	8522128	8522001	NOTE 1	8523616	—	—	—	—	—	8527296
KEYBOARD CONTROL #1	KEYBOARD ADAPTER	9069	KMOXX	B2 *	8521178	8522852	—	—	—	8524282	—	—	—	8524282
I/O GATING & PARITY	ALL MACHINES	9066	MGOXX	C2	8521992	—	—	—	—	—	—	8523648	—	8523648
480 BUFFER	MOD 1 ONLY	9057	MBXXX	D2	8521862	—	—	—	—	—	—	—	—	8521862
960 BUFFER	MOD 2 ONLY	9065			8521863	—	—	—	—	—	—	—	—	8521863
SERDES	ALL MACHINES	L514	KAIXX	E2 *	8522013	—	—	—	—	—	—	—	—	8527302
480 EXTENDED CHAR	MOD 1 EXT CHAR	2231	MCXXX	E4	8521437	—	—	—	—	—	—	—	8524314	8524314
1920 EXTENDED CHAR	MOD 2 EXT CHAR	2227			8521436	—	—	—	—	—	—	—	8524301	8524301
960 BUFFER	MOD 2 ONLY	9065	MBXXX	F2	8521863	—	—	—	—	—	—	—	—	8521863
I/O CONTROL	ALL MACHINES	9068	KAOXX	G2 *	8522109	8522151	—	—	8523664	—	—	—	—	8523664
CLOCK & STEP	ALL MACHINES	9071	KFOXX	H2 *	8521981	8522825	—	—	—	—	—	—	—	8524604
DISPLAY CONTROL	ALL MACHINES	9067	KFIXX	J2 *	8522014	8522836	—	—	—	—	—	—	—	8522836
CHARACTER GEN	SEE PAGE ZZ101		MCXXX	K2 *	—	—	—	—	—	—	—	—	*	*
SELECTOR PEN	EXTENDED BOARD	9088	KTOXX	M2	8521505	—	—	—	—	—	—	—	—	8521505
ID CARD READER	EXTENDED BOARD	2229	KROXX	N2	8522108	—	8523257	—	—	—	—	—	—	8523257

* REFER TO "ZZ" PAGES FOR INTERCHANGEABLE CARDS FOR FEATURES AND RPQ'S

E.C. SEQUENCE STRUCTURE

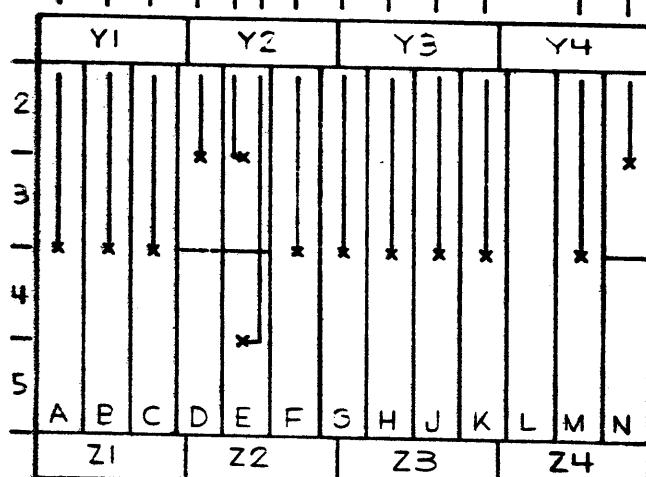
BASE - E.C. 717492

OPT NO. 1 E.C. 718556	OPT NO. 4 E.C. 739072	OPT NO. 6 E.C. 739066	OPT NO. 7 E.C. 739071	OPT NO. 8 E.C. 739268
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OPT NO. 2 E.C. 718969	OPT NO. 5 E.C. 739065
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NOTE 1
MAND NO. 1
E.C. 718958

NOTES

1 CARD TYPE 9072 P/N 8523623 (FOR W.T. ONLY)
OR E.C. 718969 INSTALLEDCARD SIDE
BOARD

EXTENDED BOARD FEATURE

EXPLANATION OF LOGIC USE

THIS SYSTEMS DIAGRAMS VOLUME CONTAINS ALL THE LOGIC REQUIRED FOR ANY FEATURE COMBINATION OF 3277 DISPLAYS. THE VOLUME IS BROKEN DOWN INTO THE LOGIC GROUPS SHOWN ABOVE. THE WHITE PAGES ARE BASE MOD 2. IF A CARD READER OR SELECTOR PEN IS IN THE MACHINE, THE BLUE KR&KT PAGES SHOULD BE CONSIDERED PART OF THE LOGIC. IF THE MACHINE IS A MOD 1, THE YELLOW MB PAGES SHOULD BE CONSIDERED A REPLACEMENT FOR THE WHITE MB PAGES. IF THE MACHINE HAS AN EXTENDED CHARACTER SET, THE GREEN MC PAGES SHOULD BE CONSIDERED A REPLACEMENT FOR THE WHITE MC PAGES.

BOARD PART NO.	BOARD DESCRIPTION
2625204	BASE W/O FEAT EXT
2625206	BASE WITH FEAT EXT
2625208	EXT CHARSET W/O FEAT
2625210	EXT CHARSET WITH FEAT

SEE EC HISTORY	DRAWING TITLE
JUL74	740382 3277 SOCKET LIST
JAN75	741246 MACH 3277
MAR75	741258 PART NO 1832870
	CLASSIFICATION
	IBM CORP

A
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COMPONENT & CONNECTOR LOCATIONS

TITLE	MOD 1	MOD 2
ANALOG CARD	OIB/A2	OIC/AI
AUDIBLE ALARM	OIC/DSI	OIC/DSI
LVPS	OIB/PSI	OID/PSI
HVPS	OIB/PS2	OIC/PSI
-12V REG CARD	OIB/VRI	OID/VRI
VOLTAGE DIST CARD	OIC/ZI	OIC/TBI
SECURITY KEY LOCK	OIC/SI	OIC/SI
CONTROL UNIT I/O CONN	OIS/J4	OIS/J4
KEYBOARD CONN	OIS/JI	OIS/JI
CARD READER CONN	OIS/J2	OIS/J2

POWER DISTRIBUTION

	TERMINAL		I/O CONN	KYBD PIN - KBI	
SIGNAL	MOD 1	MOD 2	OIS/JI	MICRO	CALICO
+8V	2	23	24	W,V	D03
			25	AUDIBLE FDBK	
-12V	4	19	13	Z	D02
DC RTN	6	22	11	X,Y	D08
			12	AUDIBLE FDBK	

ANALOG CARD

SIGNAL	BD CONN	I/O CONN		
		MOD 1	MOD 2	PIN
+VIDEO DATA OUT	H6C04			P4-12
+HI INTENSITY	J6E02			P4-15
+HORIZ SYNC	J6D04			P4-14
-BUMP DISPLAY	H6E04			P4-8
+VERTICAL RETRACE	J6B04			P4-10
-SOUND ALARM	K6A04	OIB/A2	OIC/AI	P4-16
+SWITCHED 5V	IN	H6B02		P4-19
	OUT			P4-20
-POR	K6B02			P4-21
-12V	J6C04			P3-5
+34V	K6B04			P3-6
+8V	J6A04			P3-4
+ RELAY COIL	J6E04	OIC/ZPI	OIC/TBI	3
-SECURITY KEY	H6A02			—
-SECURITY KEY GND	J6B02		OIC/SI	—
	H6C02			—

COAX

SIGNAL	BD CONN PIN
DATA	OIA-AIE2D07
GND	OIA-AIE2D08

KEYBOARD
WITH & WITHOUT CARD READER

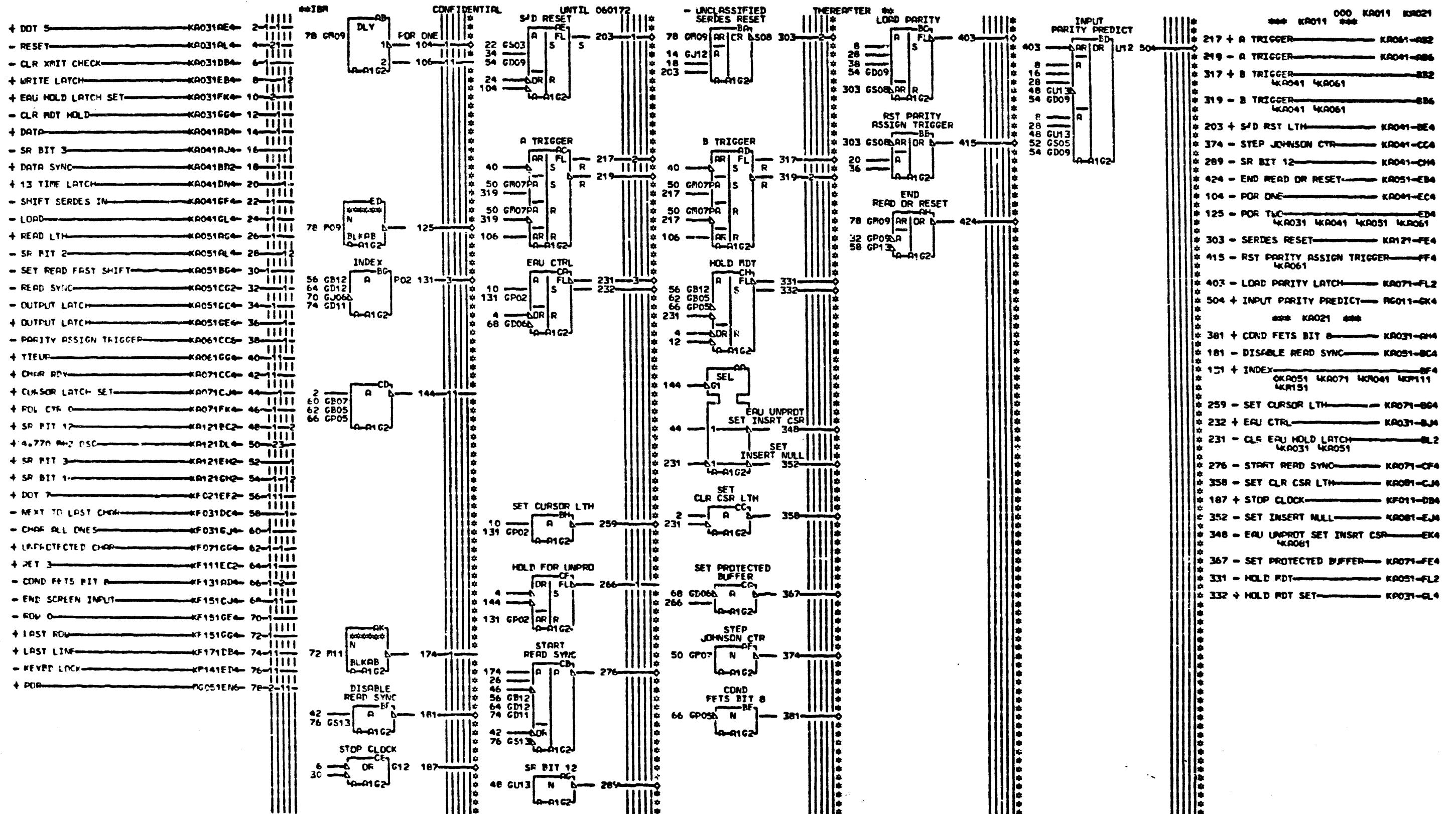
SIGNAL	BD CONN - OIA - AI	I/O CONN	KYBD PIN - I.BI
+KYBD BIT 0	A6D04	L6B04	I D B05
+KYBD BIT 1	A6E04	L6C04	2 E B06
+KYBD BIT 2	B6A04	L6D04	3 F D13
+KYBD BIT 3	B6B04	L6E04	4 H B08
+KYBD BIT 4	B6C04	M6A04	5 J B09
+KYBD BIT 5	B6D04	M6B04	18 K B10
+KYBD BIT 6	B6E04	M6C04	6 L B13
+KYBD BIT 7	C6A04	M6D04	7 M B12
+KYBD PARITY BIT	C6B04	M6E04	8 N B04
+ALPHA SHIFT	A6D02	L6B02	14 T D05
-KYBD STROBE	C6B02	M6E02	9 R B02
	C6C04	N6A04	
+NUMERIC SHIFT	B6B02	L6E02	16 S D06
-KYBD RESET	C6D04	N6B04	22 C D12
-POR CALICO KYBD	C6A02	M6D02	19 SPARE SPARE
+DE UP SHIFT	B6A02	L6D02	15 U D04
+FF ENABLE	B6C02	M6A02	17 P D11
+KYBD TUNE	C6E02	—	10 AUD FDBK SIGNAL
+CHAR RDY DEC.	—	N6C02	— D10

LIGHT PEN CONNECTOR

SIGNAL	BD SIDE OIA-AI	LIGHT PEN SIDE
-LP SW OPEN	MIC13	B05
	NI BI1	
-LP SW CLOSED	LI BI1	B08
	LI EI3	
-LP STRIKE(SIGNAL)	LI BI3	B03
+12V LP	LIC13	B02
-6V LP	MID13	B09
GND	MIB13	B07
	MI AI1	

SEE EC HISTORY	DRAWING TITLE
JUL 74	740382
JAN 75	741246
MAR 75	741258
	MACH 3277
	PART NO 1832870
	CLASSIFICATION
D	IBM CORP

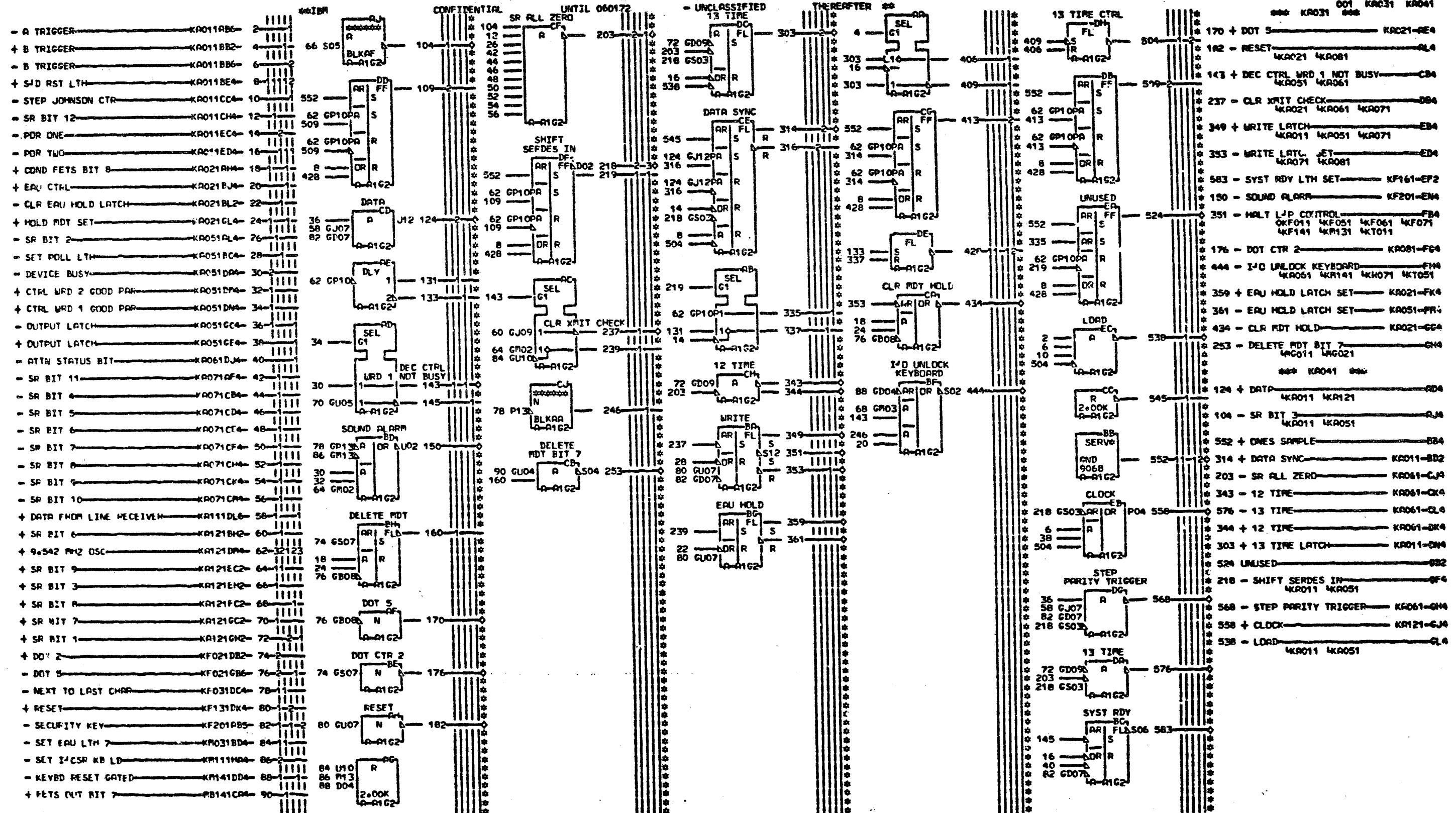
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1
5



LOC. TYPE
R-9152 9048

PAGE VER FC LE
KA011 000 71794
KA021 079 71794

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717673	
716599	
717682	
DATE 08-05-72	LAST EC 717946
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P.o.N. 1823049	
FRAME	01
PACCH. 1277	
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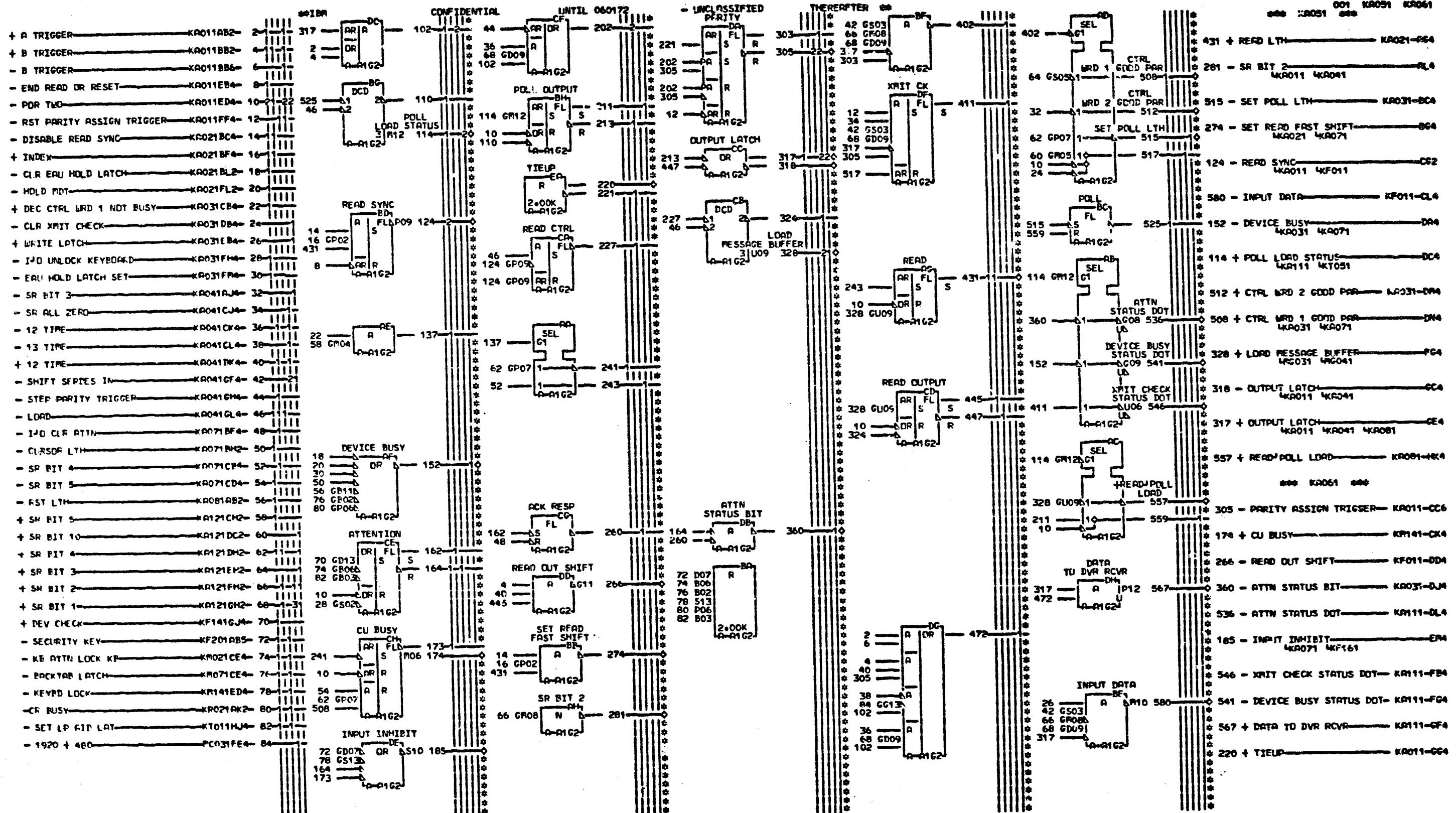


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B-SIM TO PN 1563733 EC 717946

LOC. TYPE
Q-A162 906E

PAGE VER EC LEV
KA031 001 717946
KA041 3X1 717946

I/O CONTROL	
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716939	FRARE 01
717492	IBA CORP.SDD
DATE LAST EC	KAO3
08-03-72 717946	KAO4
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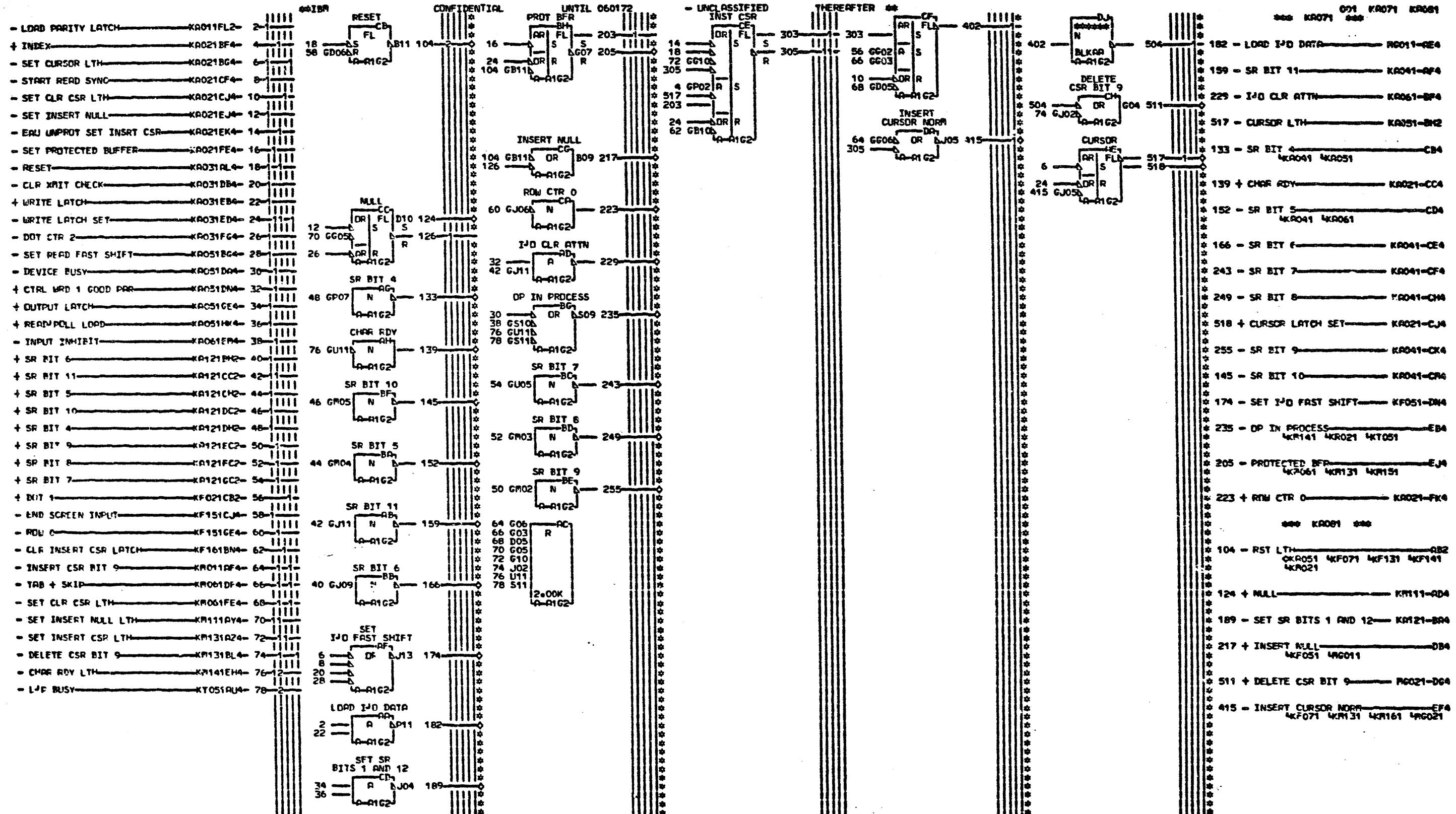


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B. SIM TO PN 1563735 EC 717946

LOC. TYPE
A-91G2 9058

PAGE VER EC LEV
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KA061 001 717946

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717492	IBM CORP. SDD KAO61
DATE 08-05-72	LAST EC 717946
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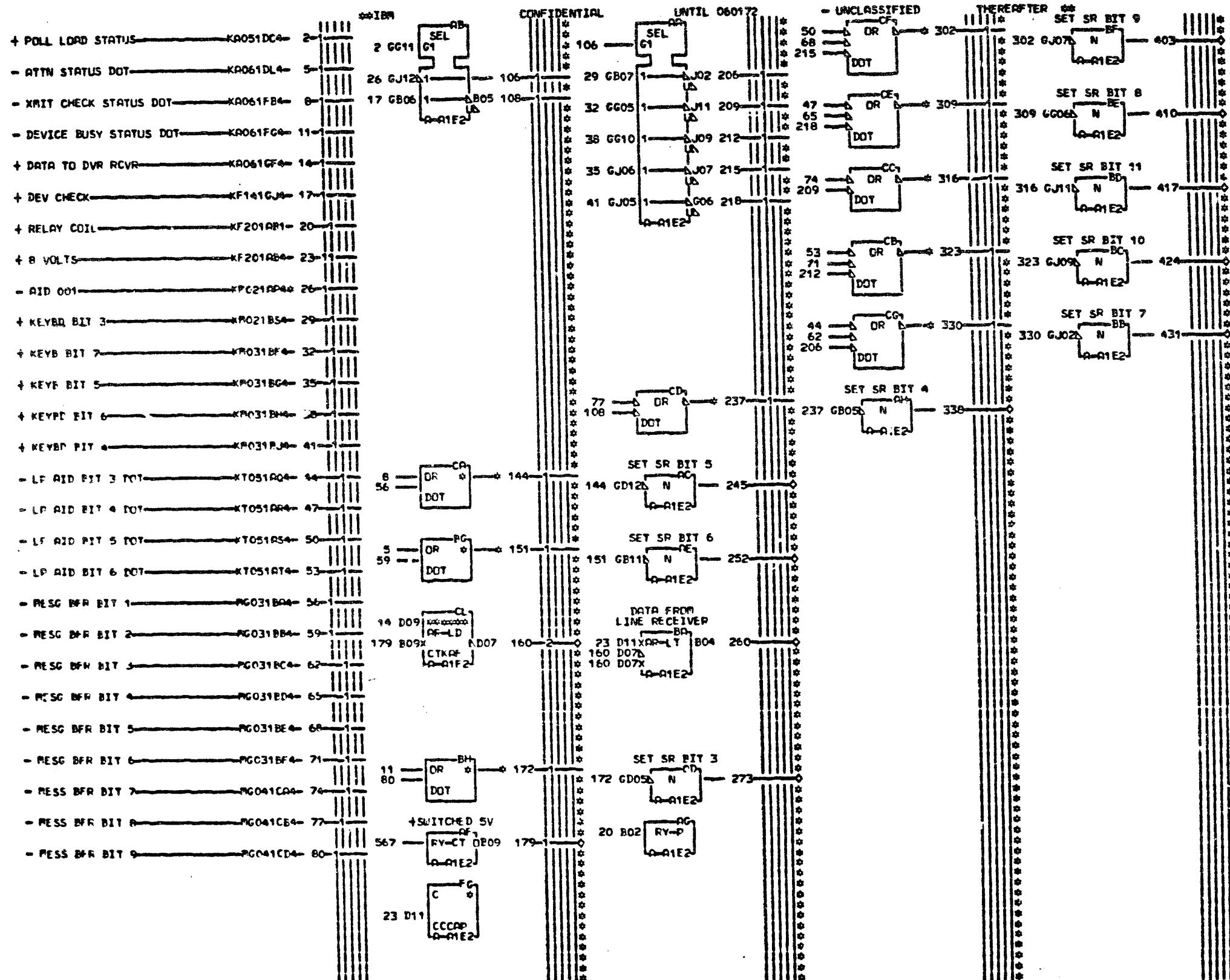


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LDC. TYPE
R-R162 9068

PAGE VER EC LEV
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KA081 000 717946

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08-05-72	717946
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FROME	01
IBM CORP.5DD	KAO071
PoNo. 1823100	001



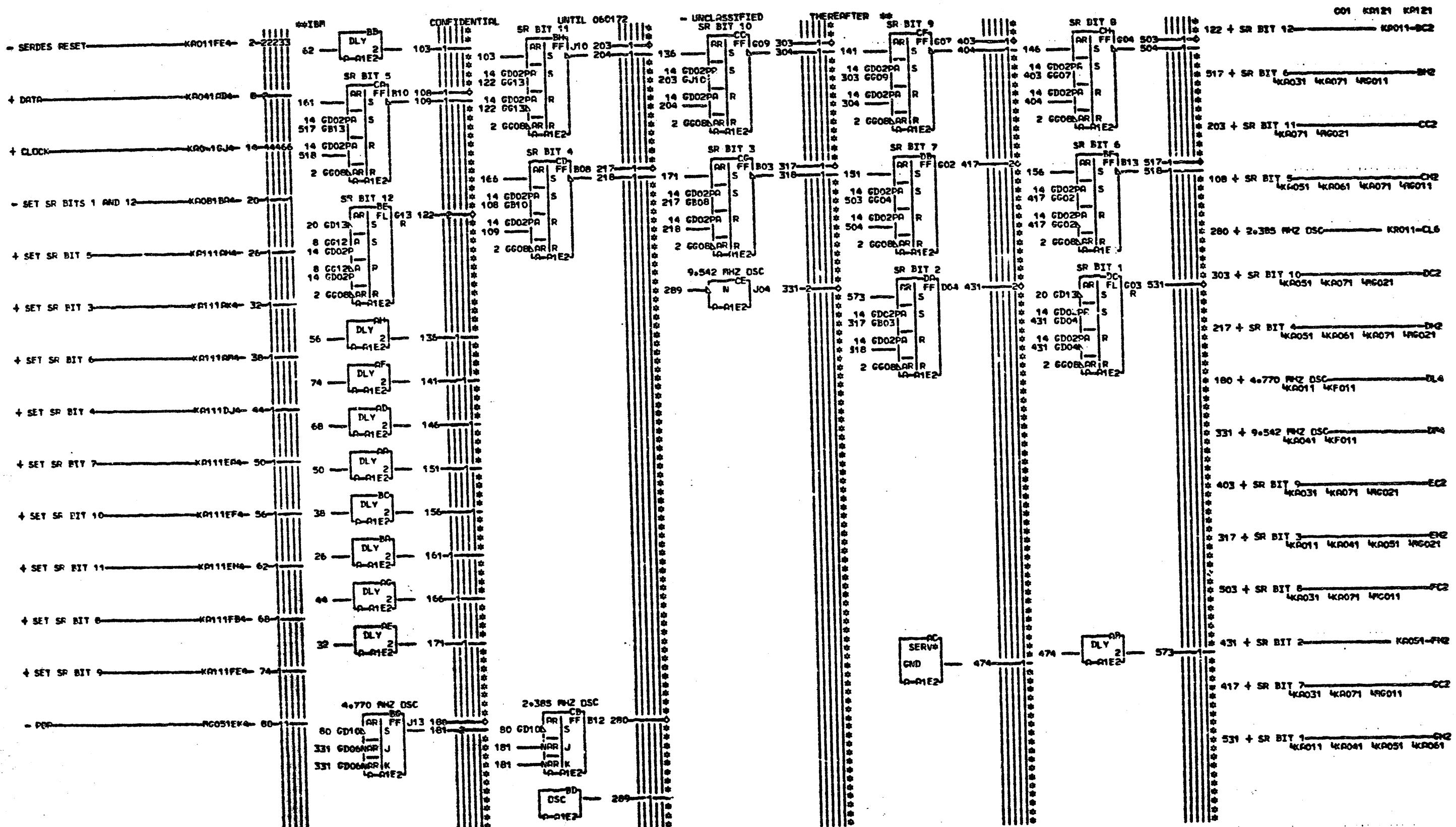
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144	RESISTOR	309	RESISTOR
	R-A1E2D12		R-A1E2G06
151	RESISTOR	316	RESISTOR
	R-A1E2E11		R-A1E2J11
172	RESISTOR	323	RESISTOR
	R-A1E2D05		R-A1E2J08
237	RESISTOR	330	RESISTOR

LOC. TYPE
A-A1E2 L514

PAGE VER EC LEV
KA111 001 717946

<u>E.C.-HISTORY</u>		PACH 3277
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DATE 08-05-72	LAST EC 717946	Po. No. 1824194 001

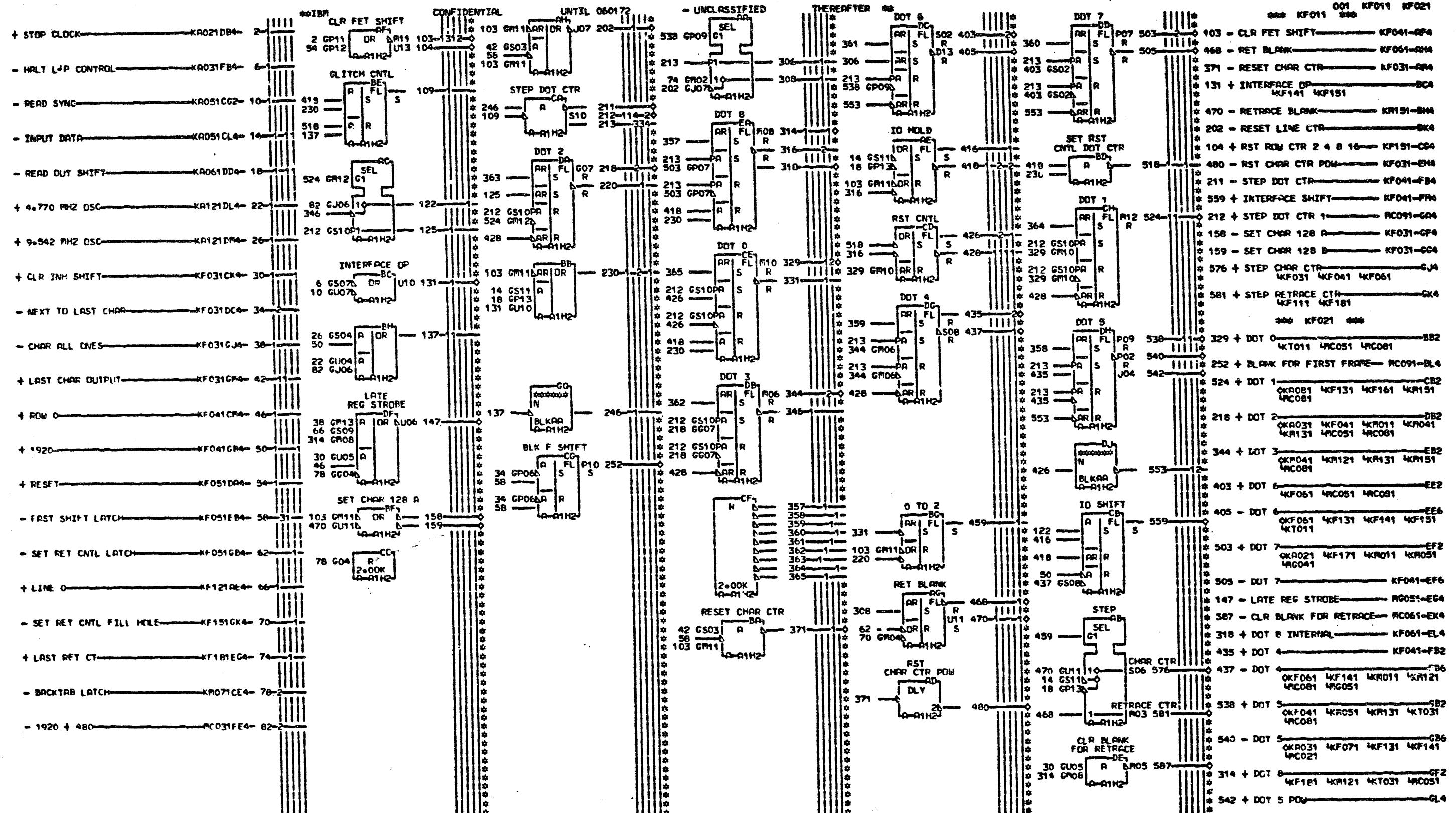
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LDC. TYPE
A-A1E2 L514

PAGE VER FC LEV
KA121 001 717097

SERDES & SPECIAL CIRCUITS	
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DATE LRST EC	
06-01-72	IBM CORP. KN KMA21
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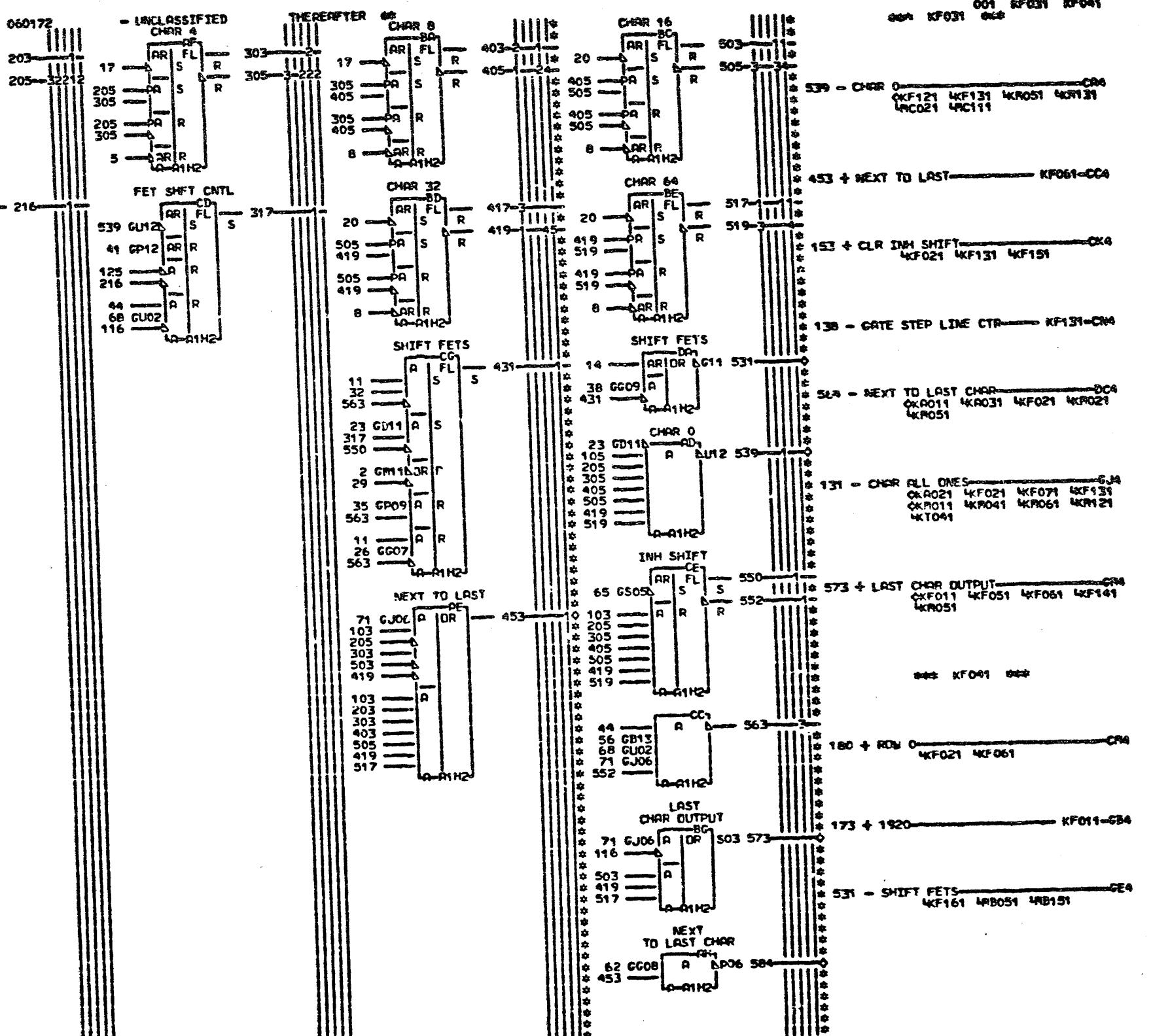
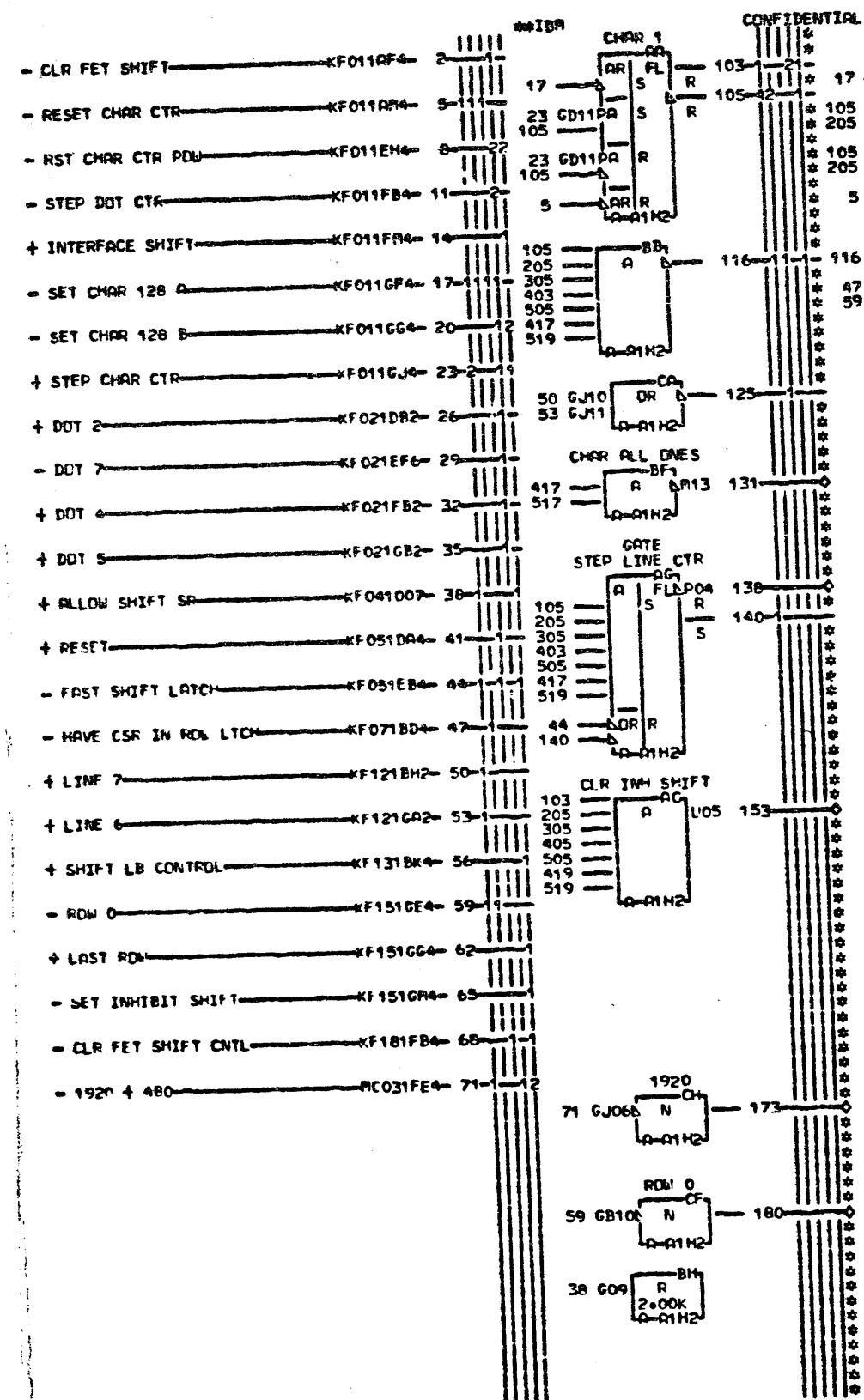


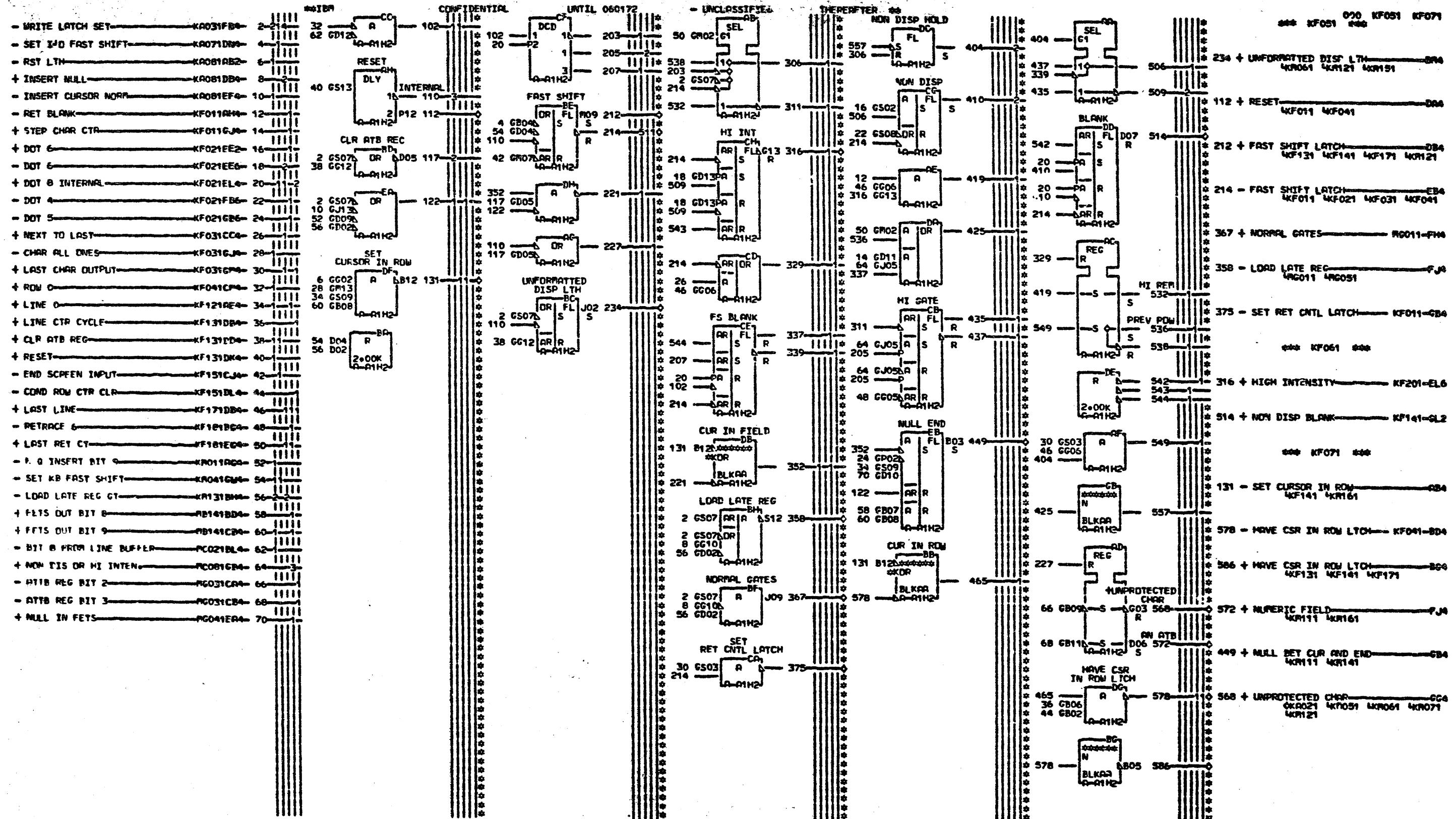
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B:SIM TO PN 1563741 EC 717946

LOC# TYPE
A:PI12 9079

PAGE VER EC LEV
KF011 001 717946
KF021 001 717946

CLOCK AND STEP CONTROL	
E-C-HISTORY	RACH-3277
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716959	
717492	
FRAME	01 KF011
IBI CORD-KN	KF021
DATE	LAST EC
06-05-72	717946
P/N 1823105	001





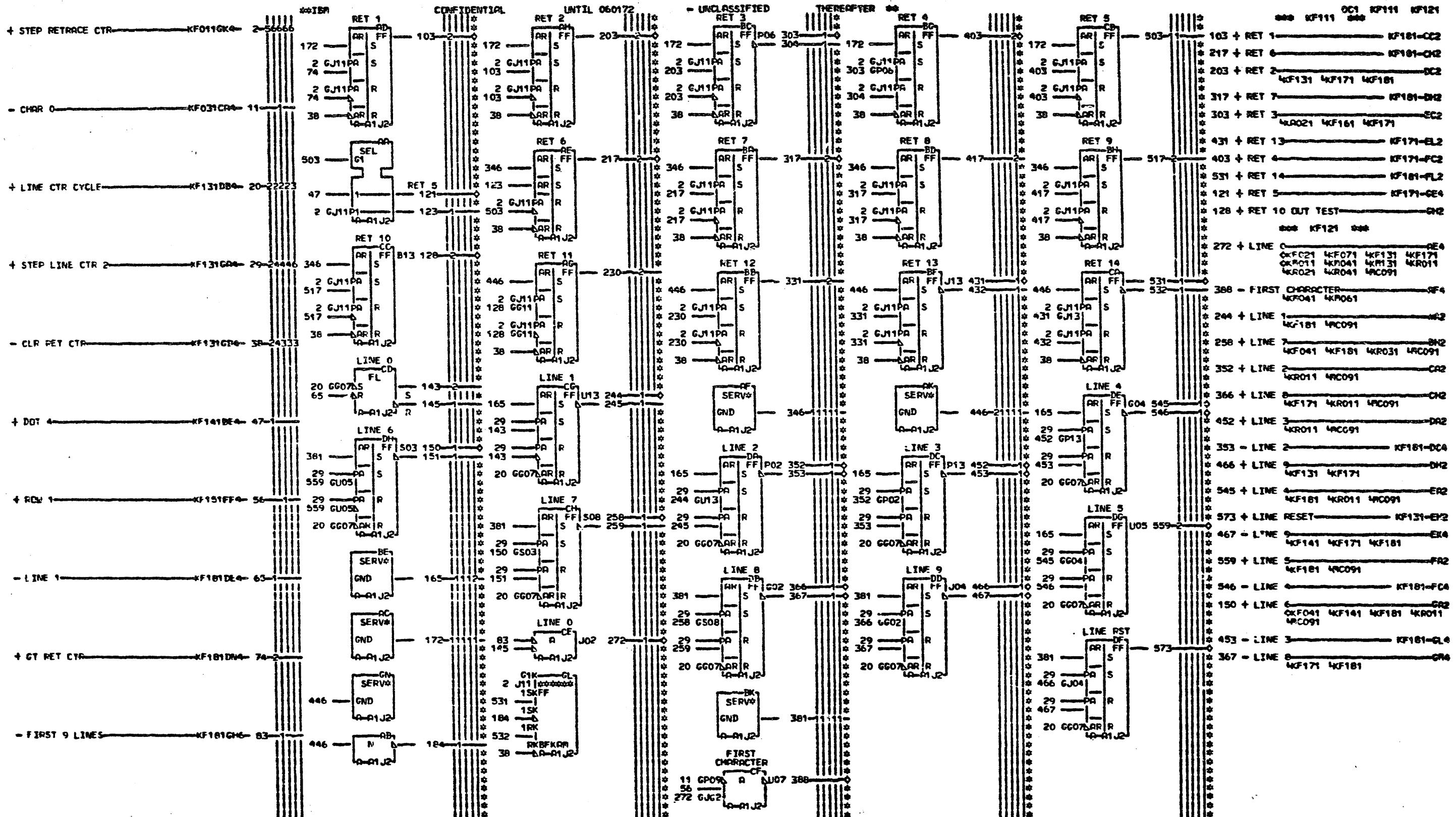
LOC. TYPE
2-9742 9071

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KF061	000	7179	44
KF071	000	7179	44

CLOCK AND STEP CONTROL

E.C. HISTORY 3 MARCH 3277

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717492	P.o.N. 1823118	000
DATE LAST EC		
08-05-72 717946		

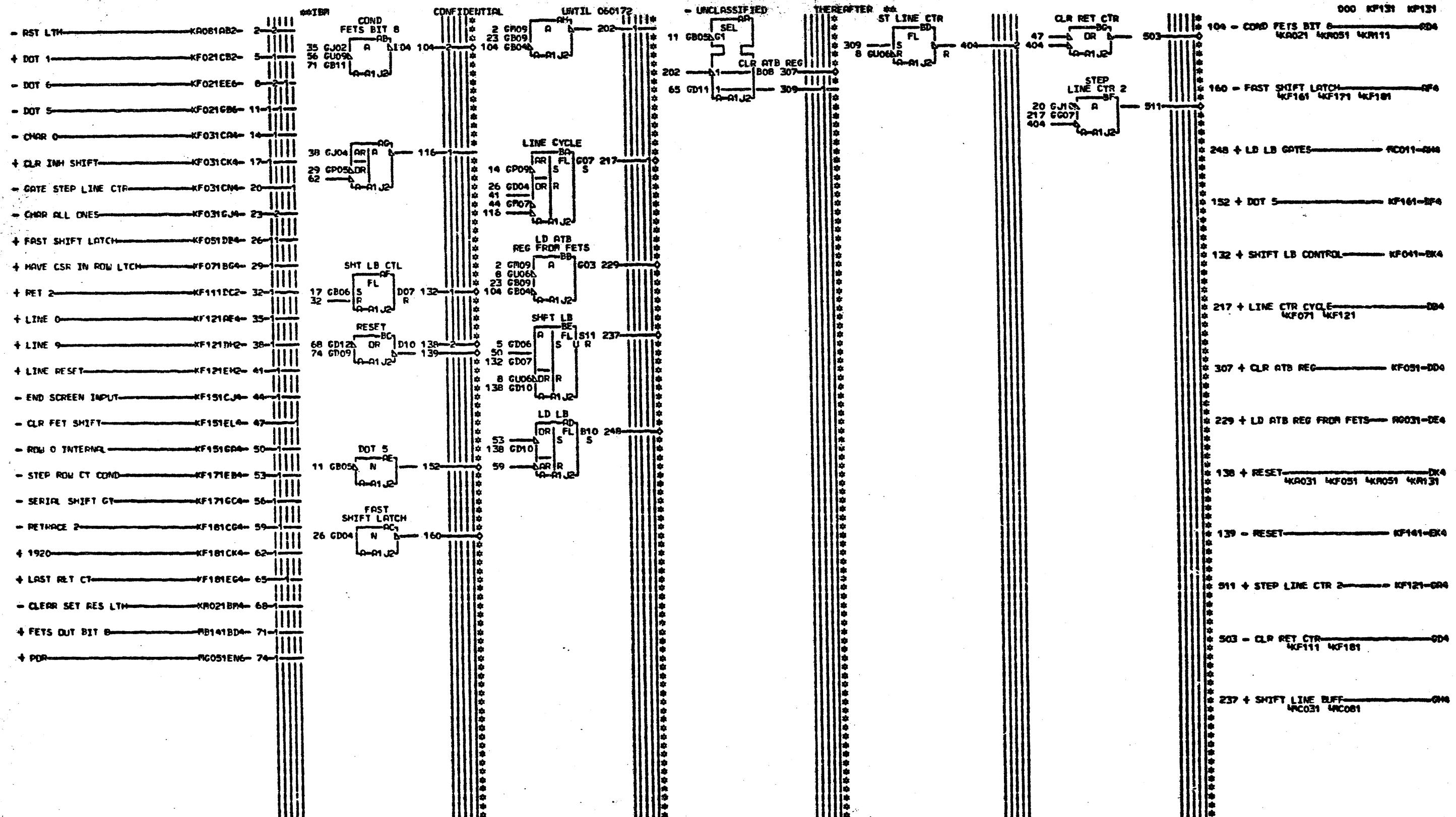


ReSIM TO PN 1563748 EC 717948

LOC. TYPE
R-91 J2 9063

PAGE VER EC LI
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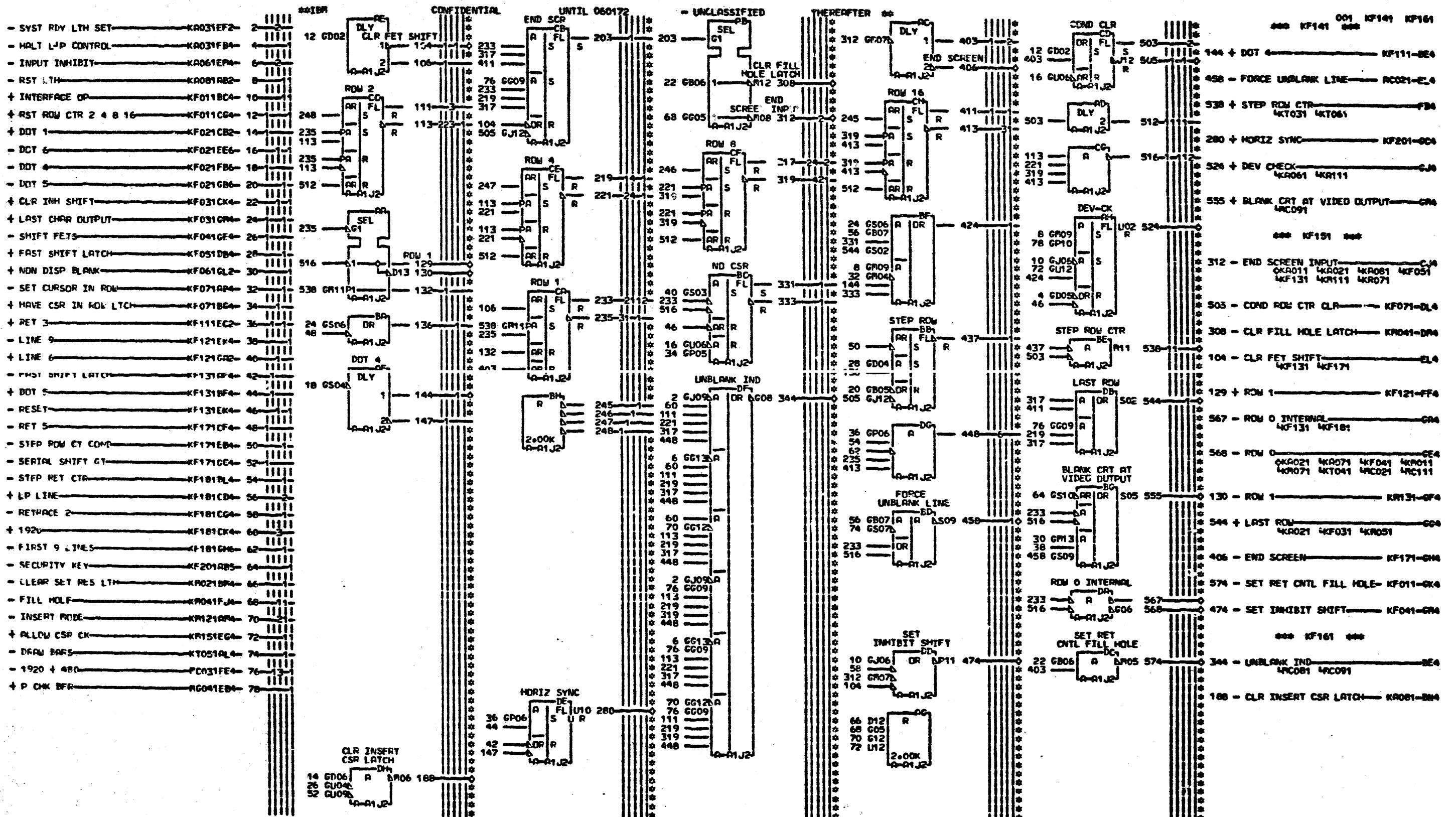
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DATE LAST EC	
05-05-72 717496	
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IBM CORP. KN	
P.O. No. 1823123	



LDC- TYPE
A-912 9067

PAGE VER EC LEV
KF131 000 717946

DISPLAY CONTROL	
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DATE LAST EC	IBR CORP,KN KF1
08-03-72 717946	Po.No. 1823127 000

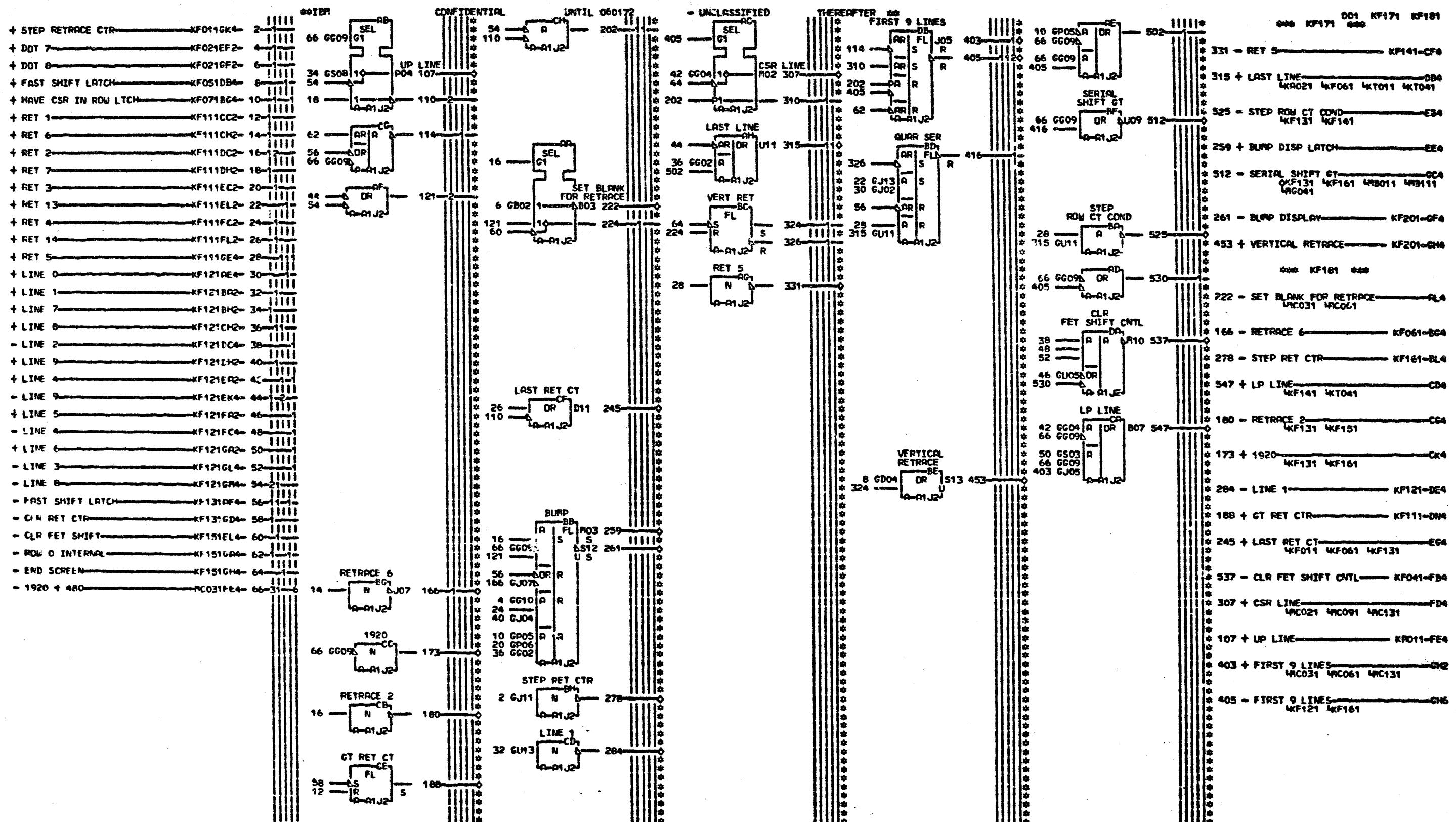


**A-SIM TO PN 1563750 EC 717492
B-SIM TO PN 1563751 EC 717946**

LOC. TYPE
R-A1 JR 9067

PAGE	VER	EC	LEV
KF141	001	71	7492
KF151	001	71	7944
KF161	002	71	7473

DISPLAY CONTROL	
—E.C.—HISTORY—B. ARCH. 3277	
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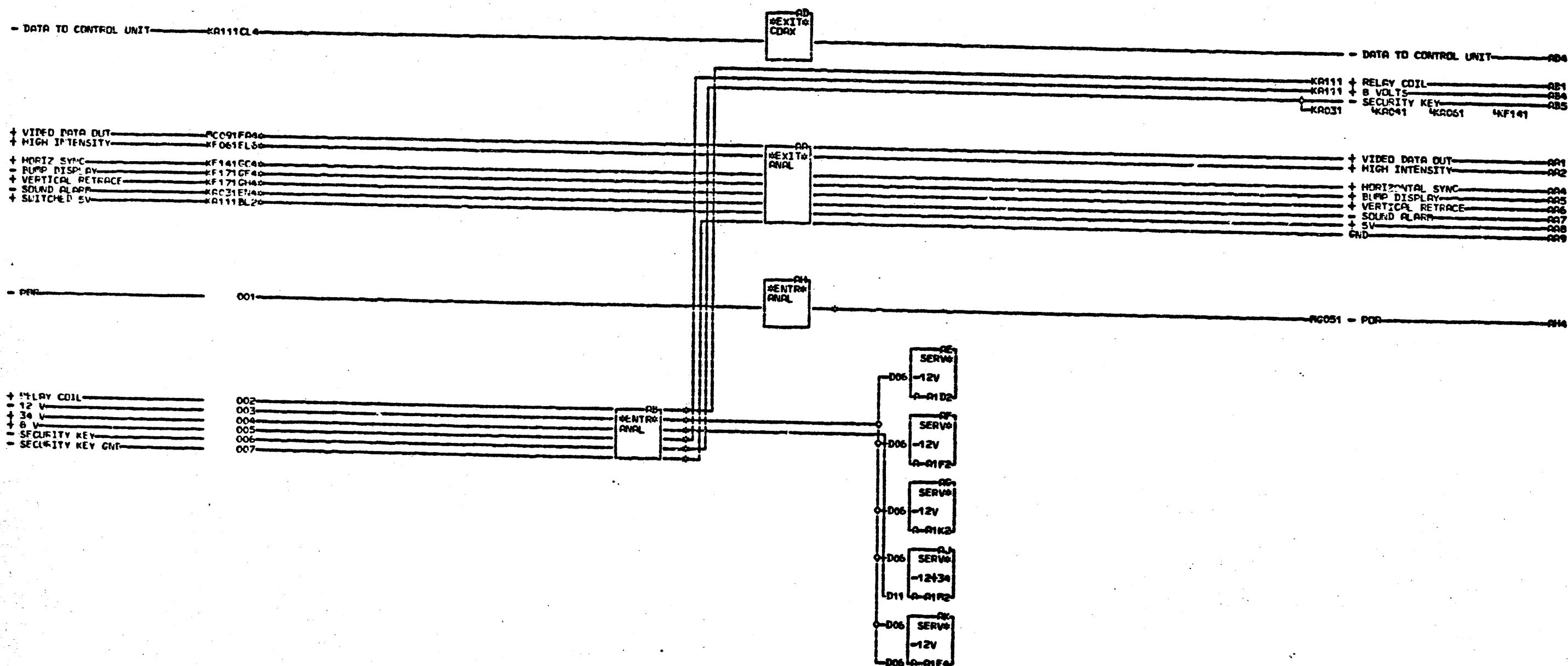


8-SIM TO PN 1563753 EC 717946
9-SIM TO PN 1563754 EC 717473

LOC. TYP
A-81 J2 906

PAGE VER EC LE
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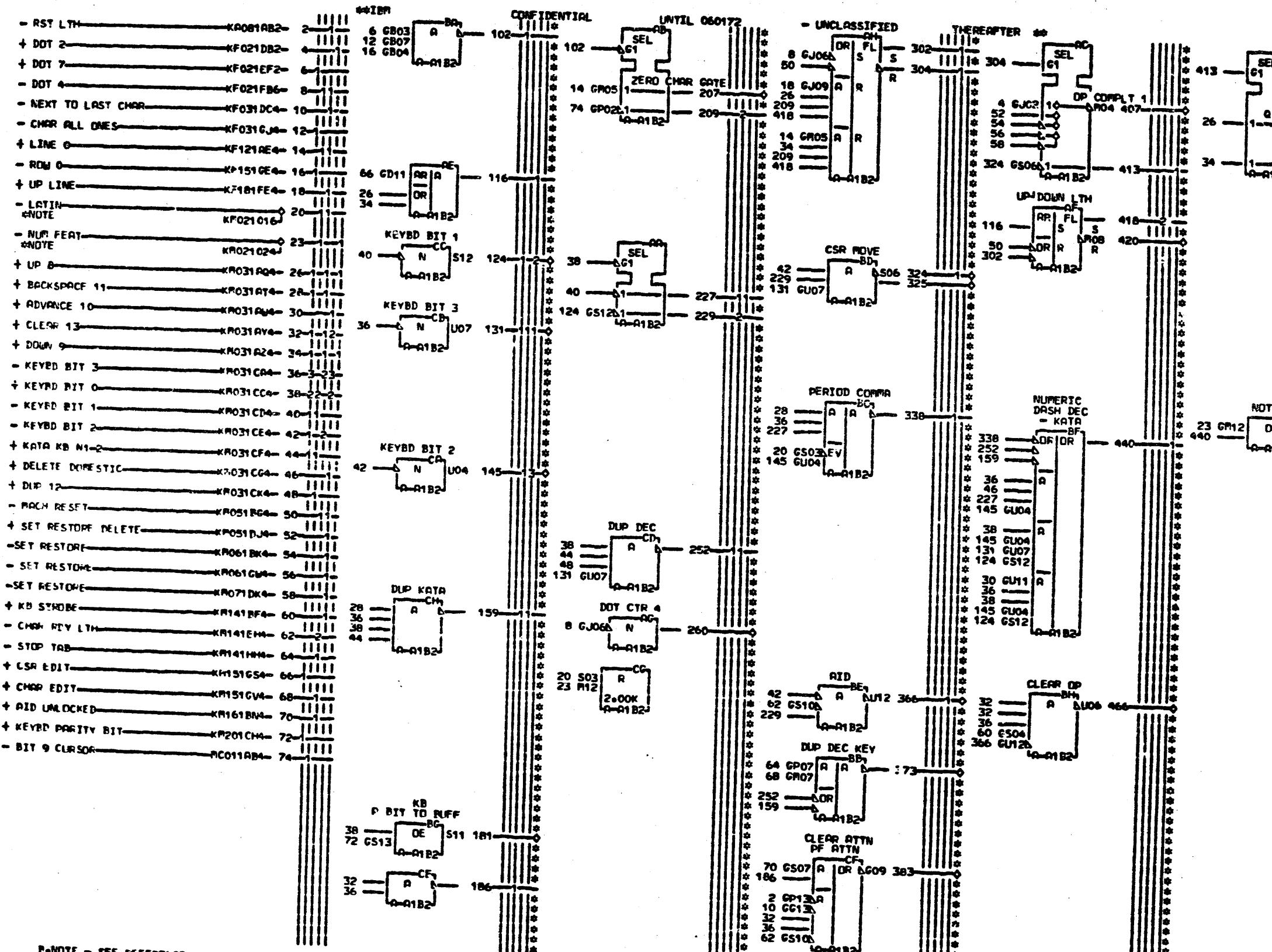
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717492	FRAME 01
DATE 08-05-72	LAST EC 717946
IBM CORP./KN	
P.O. No. 1823139	



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01A-01H6B02	PC091FA4	AM4	A-01K6B02
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01A-01J6E02	AB1	01A-01J6E04	
KF141GC4	AB2	0-01J5C04	
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1 E-9 TO PN 1563755 EC 717946

LOC. TYPE

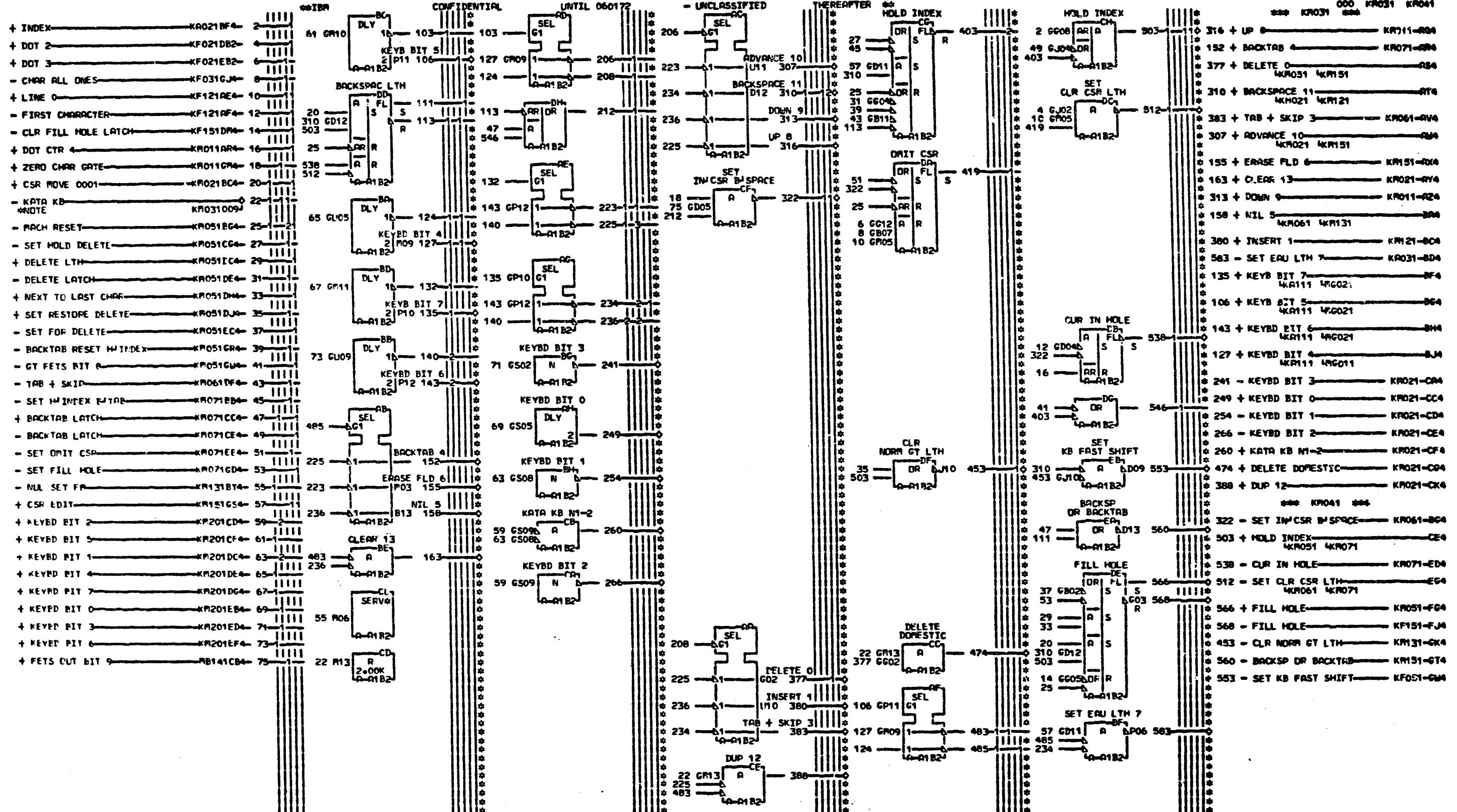


**NOTE - SEE REFERENCE PAGE
22101 FOR KEYBOARD FEATURE
JUMPERS**

LOC. TYPE
A-4182 9069

PAGE VER FC LEV
K9011 000 717946
K9021 000 717946

KEYBOARD CONTROLS #1			
E-C HISTORY		PACH 3277	
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717492		IBA CORP-KN	KR021
DATE 08-05-72	LAST EC 717946	Po.No 1823152	000



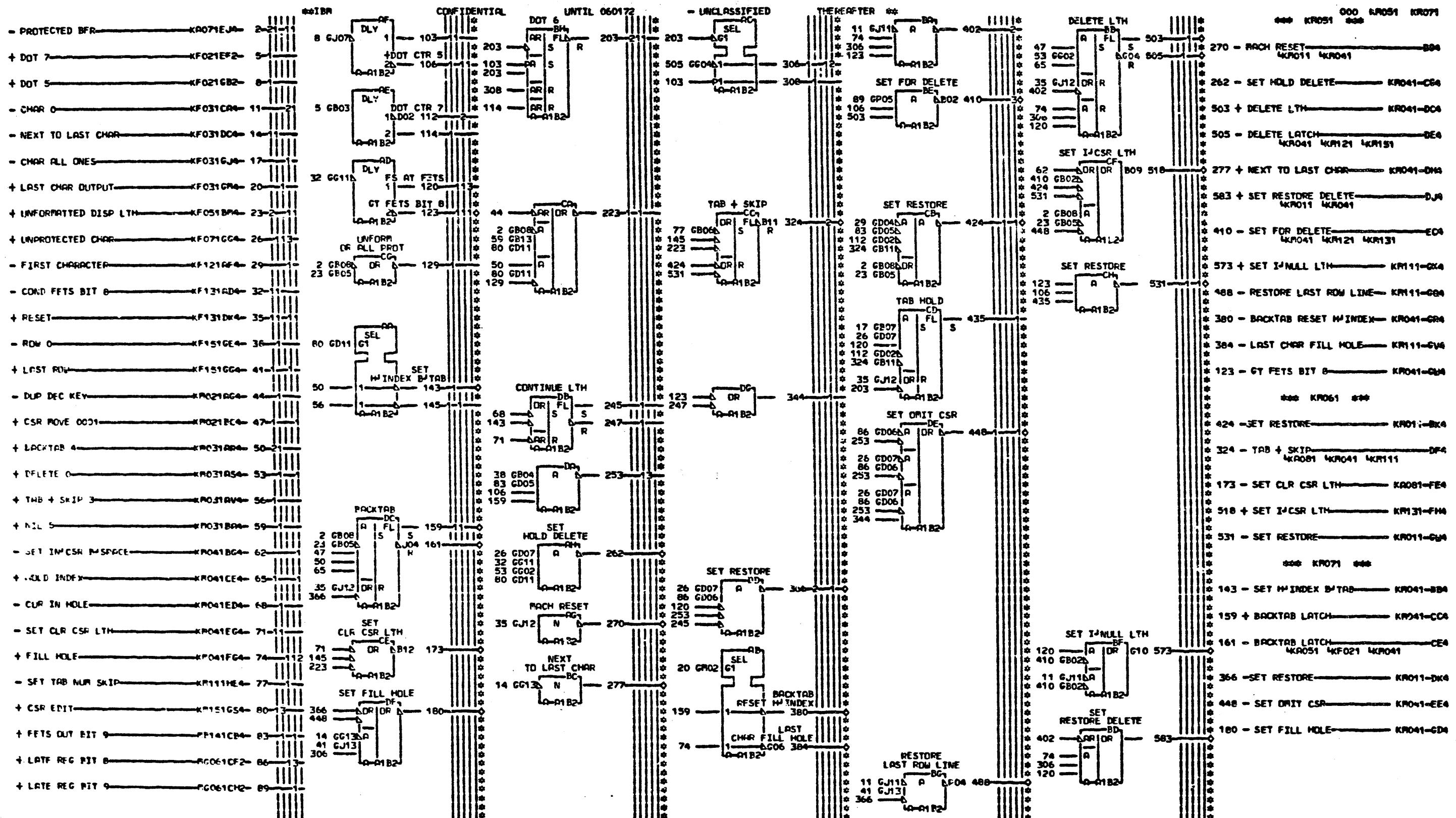
A. PICTF SEE REFERENCE PAGE
Z2101 FOR KEYBOARD FEATURE
JUMPERS

LDC. TYPE
A-A1 B2 9069

PAGE VER EC LE
KR031 000 71794
KR041 000 71794

KP031
KP041
000

KEYBOARD CONTROLS J1
 —E.C.—HISTORY—B. PIRCH 3277
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 717692
 DATE LAST EC
 08-05-72 717946
 FRAME 01
 IBR CORP. KN
 PoNo 1823756



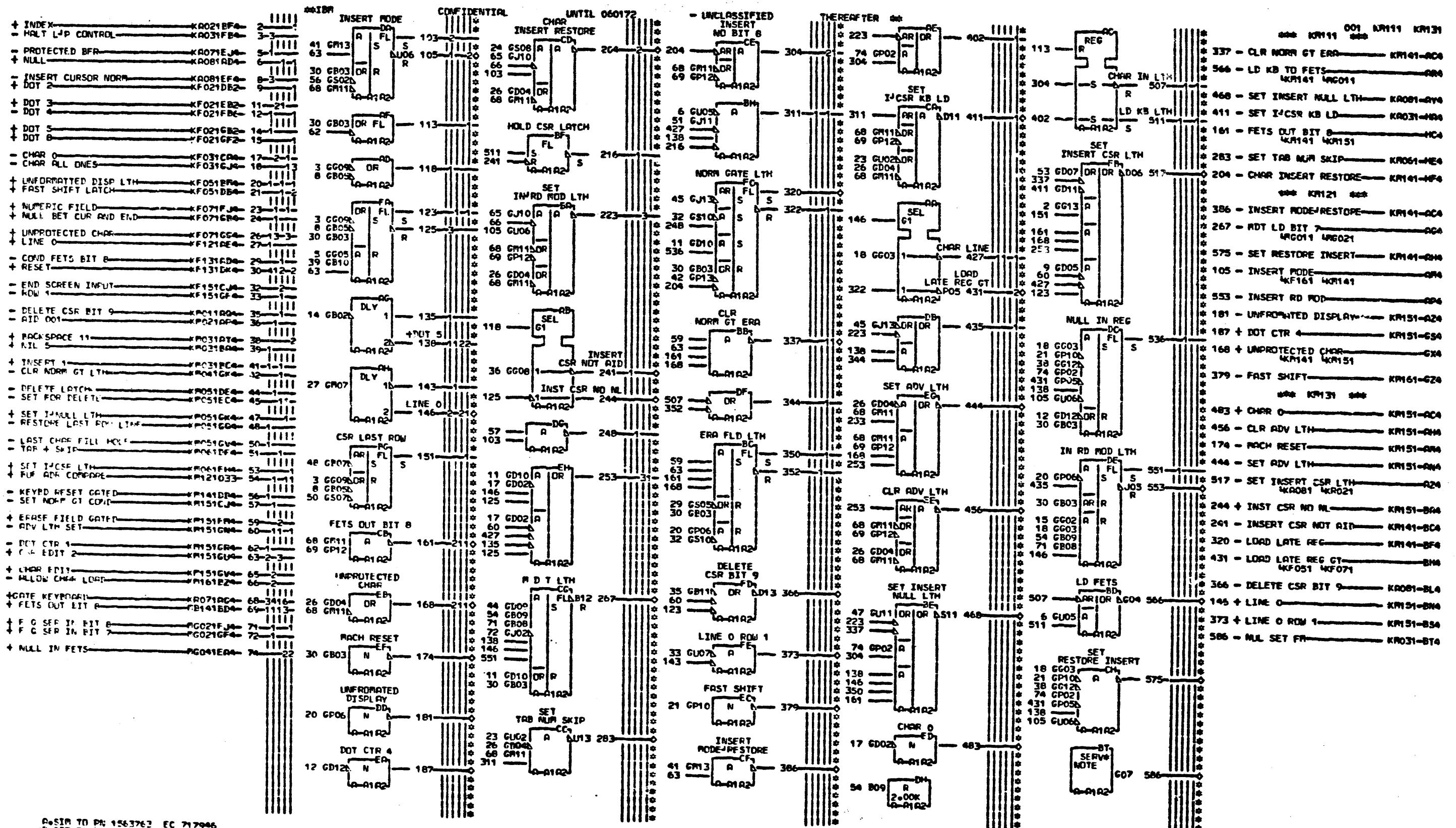
LOC. TYPE
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KP071	000	71	794

KEYBOARD CONTROLS #1

—E.C.—HISTORY—
71 7473 8 PARCH 3277
71 6959 FRAME 01
71 7492 IBM CORP/KN

DATE LAST EC
08-05-72 71 7946
PoNo 1823758



AsIM TO PN 1563762 EC 717946
BosIM TO PN 1563764 EC 717946
CoNUTE SEE REFLERENCE PAGE 7-2102
IF RPD RP3553 INSTALLED
SIM TO PN 1563765 EC 717946

KM191

KTM 39

001

LOC. TYPE
0-01 R2 9072

PAGE VER EC REV
KRT11 001 717946
KRT21 001 717946
KRT31 001 717946

KEYBOARD CONTROLS J2

E.C.	HISTORY	FRACN	3277
717473		FRAME	01
716959		IBR	CDPCKN
717492		PoNo	1823761
DATE	LAST EC		
06-05-72	717946		

+ INDEX KR021BF4- 2
- I/O UNLOCK KEYBOARD KR031FH4- 4
+ CU BUSY KR061CK4- 6
- DP IN PROCESS KR071EB4- 8
- PROTECTED BFR KR071EJ4- 10
- RETRACE BLANK KF011BH4- 12
+ DOT 1 KF021CB2- 14
+ DOT 3 KF021EB2- 16
+ UNFORMATTED DISP LTH KF031BPA- 18
+ NULL BFT CUR AND END KF071GB4- 20
- DP COMPLT 1 KF011AHA- 22
- CSR MOVE 0001 KF021AHA- 24
- RTD 0C1 KF021AHA- 26
+ DELETE 0 KF031AHA- 28
+ ADVANCE 10 KF031AHA- 30
+ ERASE FLD 6 KF031AHA- 32
- BACKSP OR BACKTAB KF041CT4- 34
- DELETE LATCH KF051DE4- 36
- CLR NORI ST FPO KF111PC4- 38
- LD KB TO FETS KF111PA4- 40
- FETS OUT BIT 9 KF111HC4- 42
- CMOP INSERT RESTORE KF111HF4- 44
- INSERT PODE RESTORE KF121AC4- 46
- SET RFSTOP INSERT KF121AHA- 48
- INSERT PODE KF121AHA- 50
- UNFORMATTED DISPLAY KF121A24- 52
+ DOT CTR 4 KF121E54- 54
+ UNPROTECTED CHRG KF121E64- 56
+ CHRG 0 KF131AC4- 58
- CLR ADV LTH KF131AHA- 60
- RACH RESET KF131AHA- 62
- SET ADV LTH KF131AHA- 64
+ INST CSR NO NL KF131B04- 66
- INSERT CSR NOT RTD KF131BC4- 68
- LOAD LATE REC KF131BF4- 70
+ LINE 0 KF131BH4- 72
+ LINE 0 ROW 1 KF131BS4- 74
+ DE LP SHIFT KF161BL4- 76
+ LATIN OR KATA SHIFT KF161BT4- 78
- LOCK KB PF OF NUMERIC KR161BV4- 80
- KEYBD RESET KR201CRA- 82
- KEYBD STROBE KR201EH4- 84
+ GATE KEYBOARD KR071AG4- 86
+ FETS OUT BIT 9 RB141CE4- 88
+ PNR PG051EN6- 90

20184
KEYBD
RESET GATED
90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

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90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

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90 GU12 AR OR DS02 104

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82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

CONFIDENTIAL

CHAR RDY LTH
BD

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

CHAR RDY LTH
UNTIL 050172

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

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90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

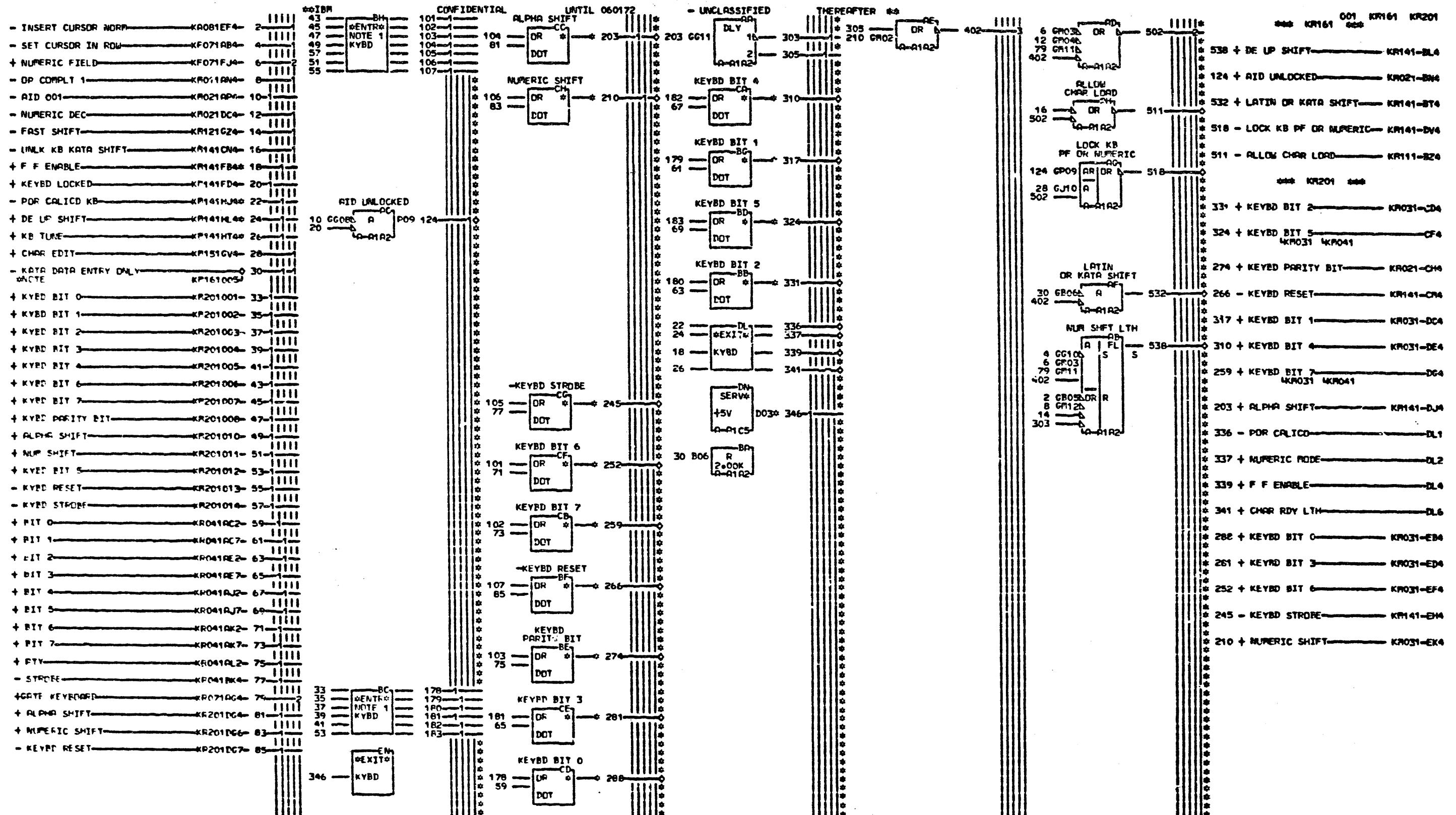
90 GU12 AR OR DS02 104

6 GU10A LA-A1A2

82 GS020 LA-A1A2

424

90 GU12 AR OR DS02 104



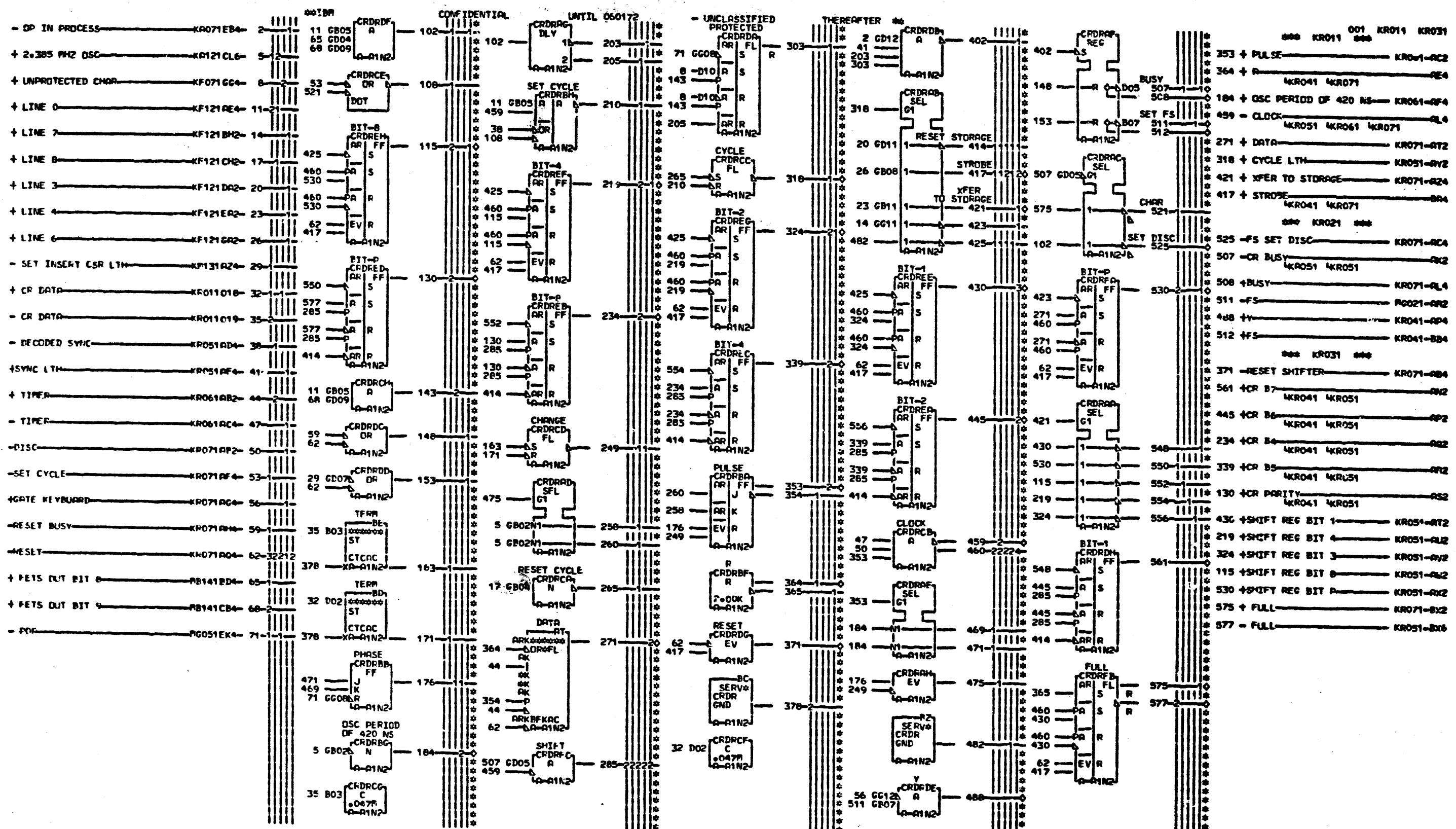
Q.SIM TO PN 1563768 FC 717946
BNOTE 1 71 SOCKET FDR KVED
WJD CAFI REAPER
SIM TO PN 1563769 EC 717946

EDGE CMN.	010-01C6B02	324 A-01B6D04
18 A-01E6L02	252 A-01B6E04	331 A-01B6A04
22 A-01C6G02	259 A-01C6A04	346 A-01C6C02
24 A-01F6G02	266 A-01C6D04	
26 A-01C6E02	019 A-01H6B04	
203 F-01A6D02	274 A-01C6E04	
019 A-01L6P02	281 A-01B6B04	
210 A-01B6P02	288 A-01A6T04	
019 A-01L6E02	310 A-01B6C04	
245 A-01C6C04	317 A-01A6E04	

LINC. TYPE
APR182 9072

0006 VER EC LEV
KR161 001 717946
KR201 001 717946

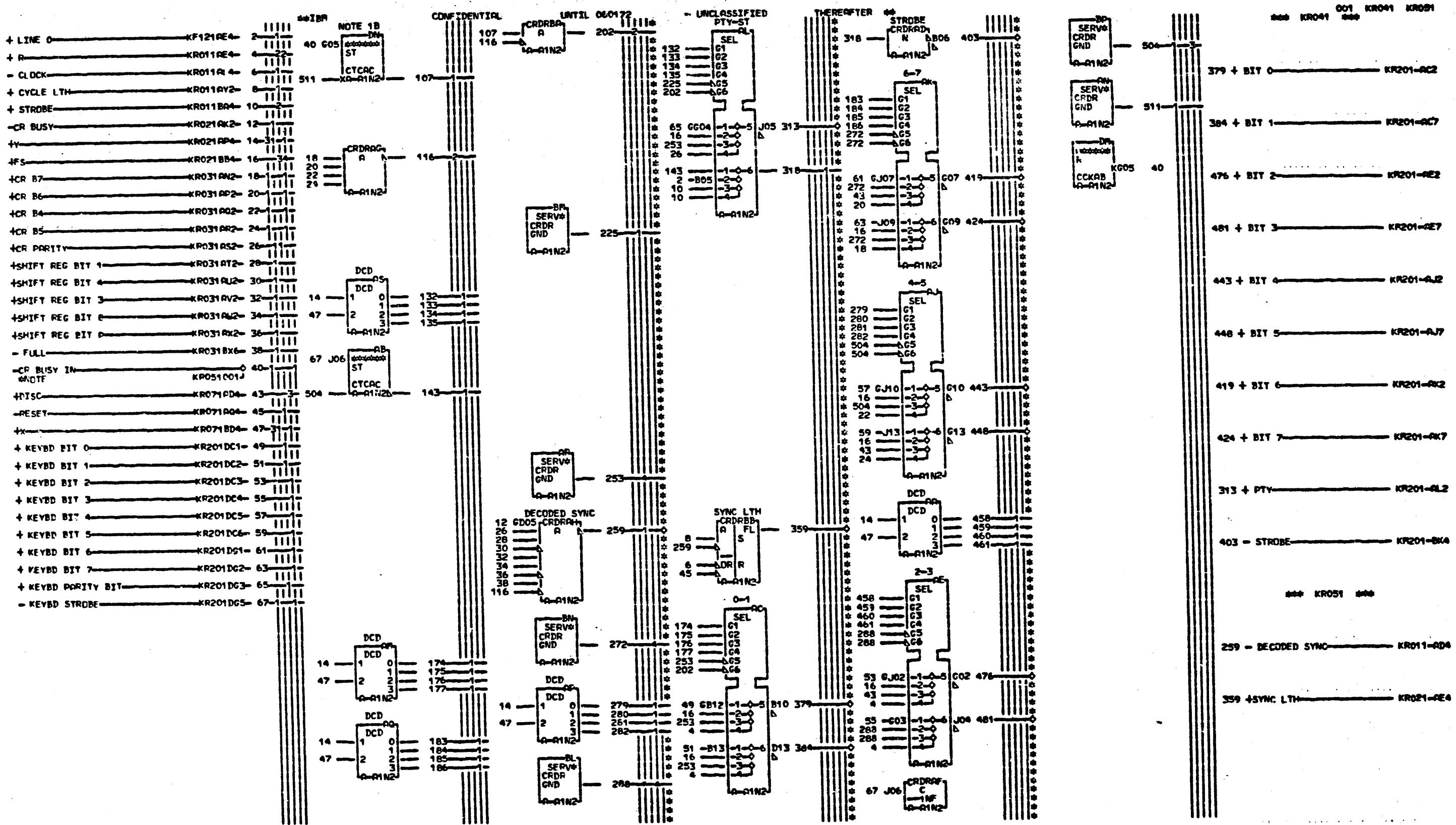
KEYBOARD CONTROLS 42	
LOGIC INTERFACE	
E.C. HISTORY	
717473	RACH 3277
716959	FRATE 01 KR161
717452	IBR CORP eKN KR201
DATE 08-05-72	LAST 717946
EC P.O. No. 1824193 001	



LOC. TYPE
A-91 N2 2229

PAGE VER EC LEV
KRO11 001 717492
KRO21 001 717946
KRO31 031 717492

CARD READER		
-E.C. HISTORY		RACH 3277
717473		FRAME 01 KROT
716959		
717492		
DATE	LAST EC	IBM CORP. 5DD KROT
09-05-72	717946	P.o.N 1823769 001

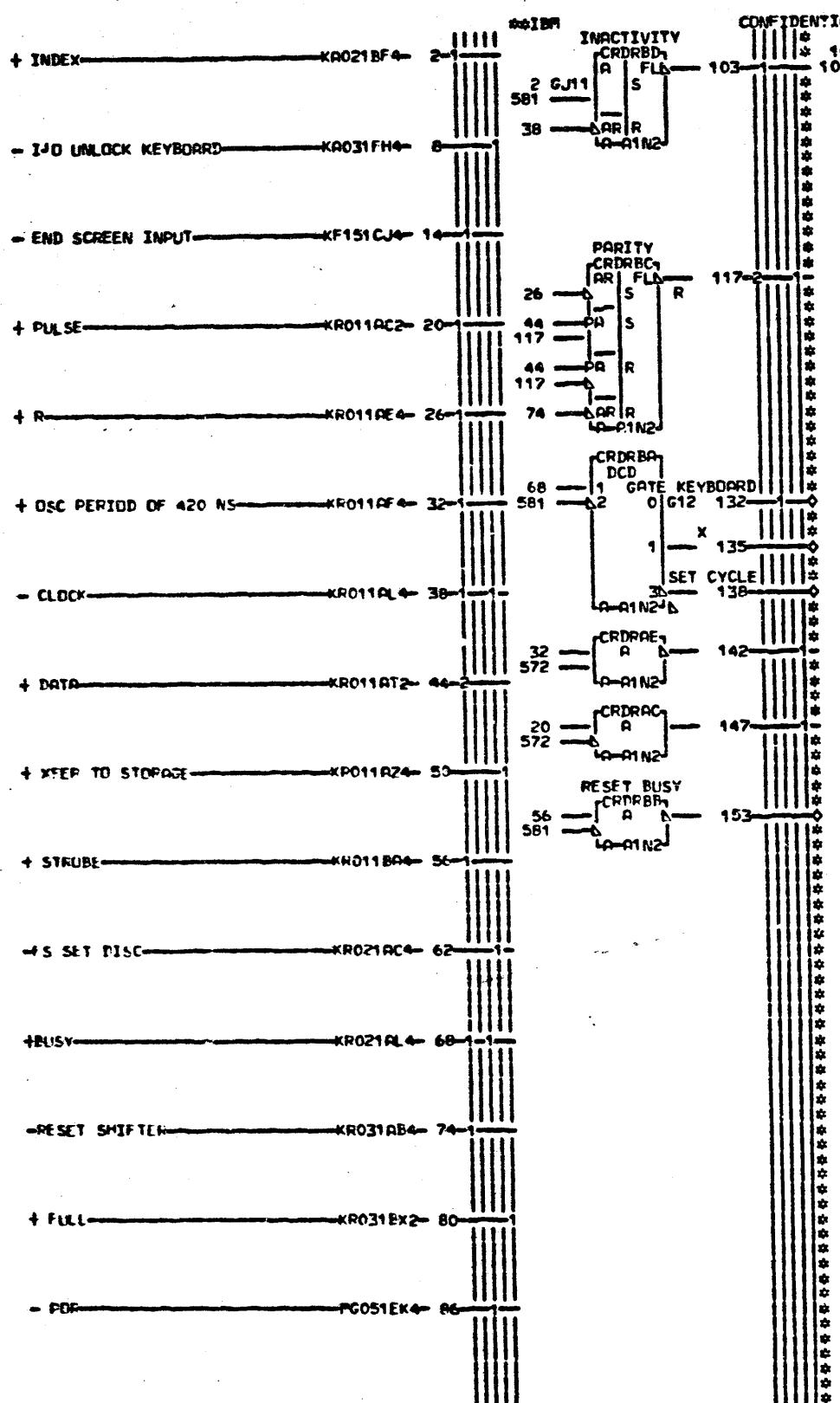


NOTE SEE REFERENCE PAGE
22101 FOR CARD READER
FEATURE JURER

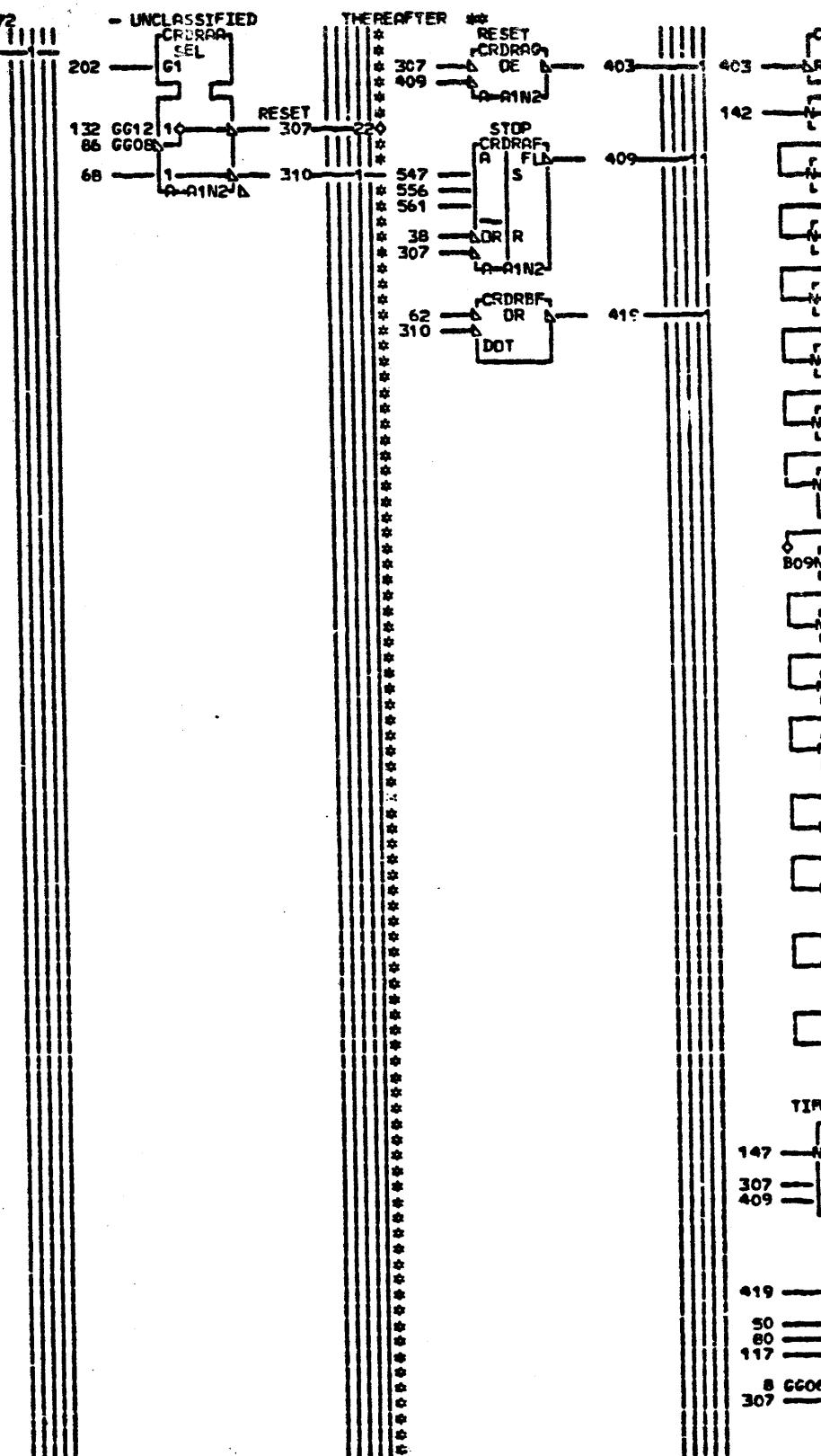
LDC. TVPP
8-9182 2229

POCE VER EC LEV
KRC01 001 717492
KRC51 001 717492

CARD READER
E.C. HISTORY 3 PACH.3277
717473 716959 FRAME 01
DATE LAST EC IBM CORP. SDD
06-01-72 717492 IPoN 1823770

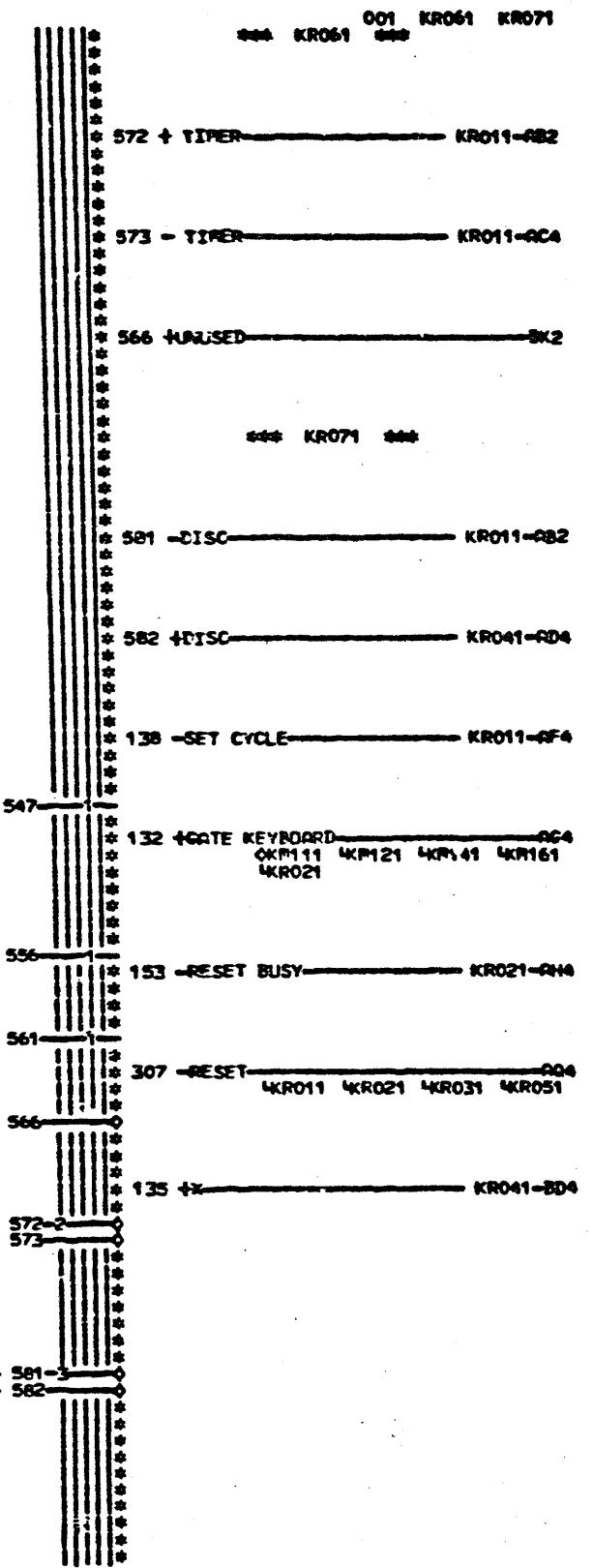


AL UNTIL 06011
4 C612A RCRDRBE 202-
3 - A1N2



LOC. TYP
A-21 N2 222'

PARF VER EC LEV
KR061 001 717492
KR071 001 717946



CARD READER	
—E.C.—HISTORY—	
717473	RACH.3277
716959	FRAME 01 KR061
717492	IBM CORP. KR071
DATE 08-05-72	LAST EC 717946
P.o.N. 1233771 001	

IBM

CONFIDENTIAL

UNTIL 060172

- UNCLASSIFIED

THEREAFTER

001 KR201

+ KYBD BIT 0
+ KYBD BIT 1
+ KYBD BIT 2
+ KYBD BIT 3
+ KYBD BIT 4
+ KYBD BIT 5

001
002
003
004
005
006

DC
#ENTR#
CRDR 1
KYBD

KR041 + KEYBD BIT 0 DC1
KR041 + KEYBD BIT 1 DC2
KR041 + KEYBD BIT 2 DC3
KR041 + KEYBD BIT 3 DC4
KR041 + KEYBD BIT 4 DC5
KR041 + KEYBD BIT 5 DC6

+ KYBD BIT 6
+ KYBD BIT 7
+ KYBD PARITY BIT
+ ALPHA SHIFT
- KEYED STROBE
+ NUMERIC SHIFT
- KYBD RESET

007
008
009
010
011
012
013

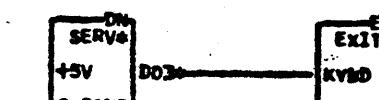
DG
#ENTR#
CRDR 1
KYBD

KR041 + KEYBD BIT 6 DG1
KR041 + KEYBD BIT 7 DG2
KR041 + KEYED PARITY BIT DG3
KR201 + ALPHA SHIFT DG4
KR041 - KEYED STROBE DG5
KR201 + NUMERIC SHIFT DG6
KR201 - KEYBD RESET DG7

- POR CALICO KB
+ DE UP SHIFT
KR141H40
KR141HL40
+ FF ENABLE
KR141FF40
+ CHRR RDY DEC
KR141FF40

#EXIT#
CRDR 1
KYBD

- POR CALICO
+ DE UP SHIFT
DK1
DK2
+ FF ENABLE
DK4
+ SOUND KYBD
DK6



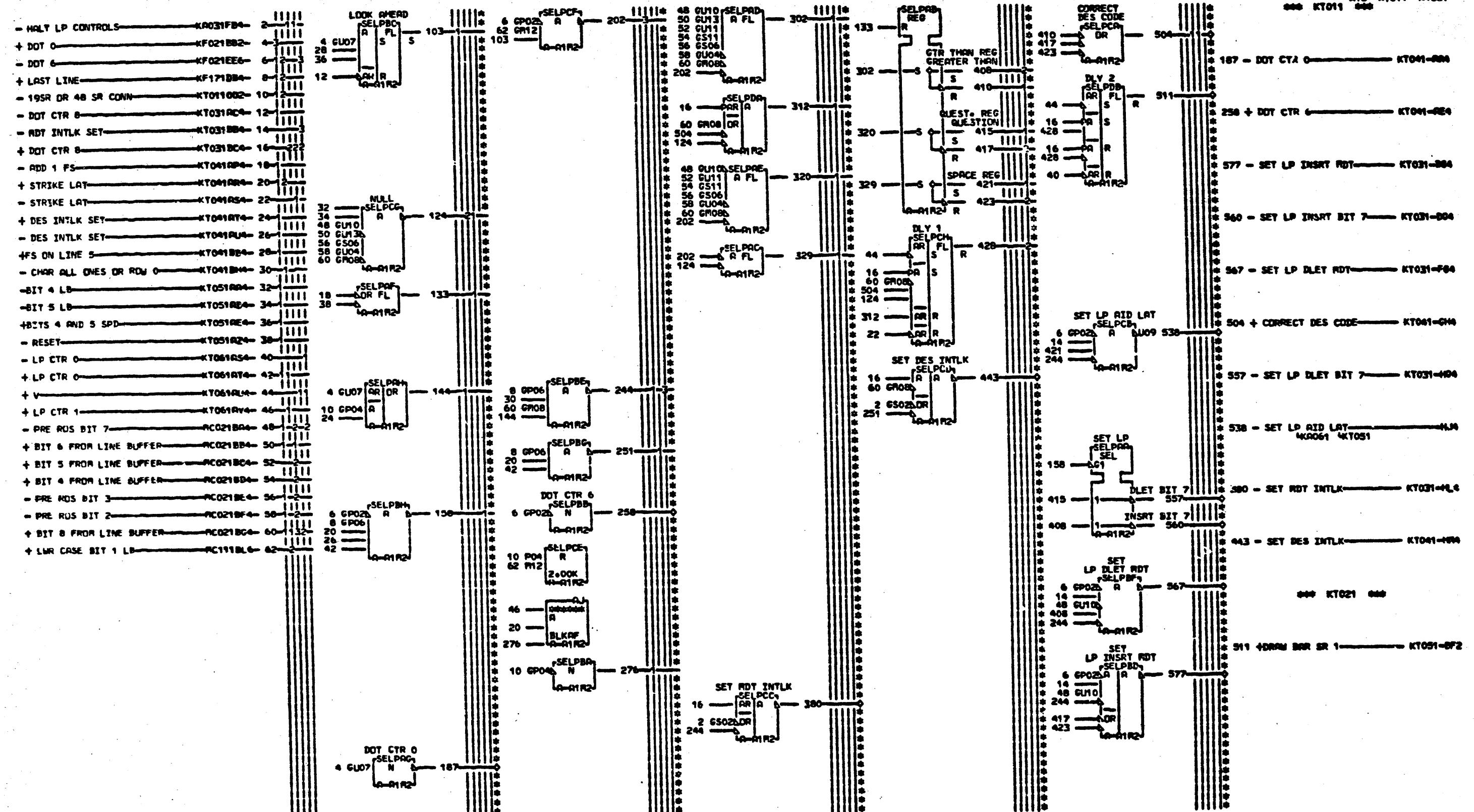
LOC. TYPE

NOTE 1 24 SOCKET FOR KYBD
WITH CARD READER

KR141F80 DC2 A-R1L6C04 01A-R1R6E02
01A-R1R6D02 DC3 A-R1L6D04 DNA A-R1N6A02
KR141FF4 DC4 A-R1L6E04
01A-R1N6C02 DC5 A-R1R6A04
KR141H40 DC6 A-R1R6B04
01A-R1R6D02 DG1 A-R1R6C04
KR141H40 DG2 A-R1R6D04
01A-R1L6D02 DC3 A-R1R6E04
DC1 A-R1L6B04 DC5 A-R1N6A04

KEYBOARD INTERFACE FOR CR	
-E.C. HISTORY- 717473	
FRM	01
DATE	LAST EC
02-18-72	716059
IBM CORP. KH	
P.O. 1823772	

001

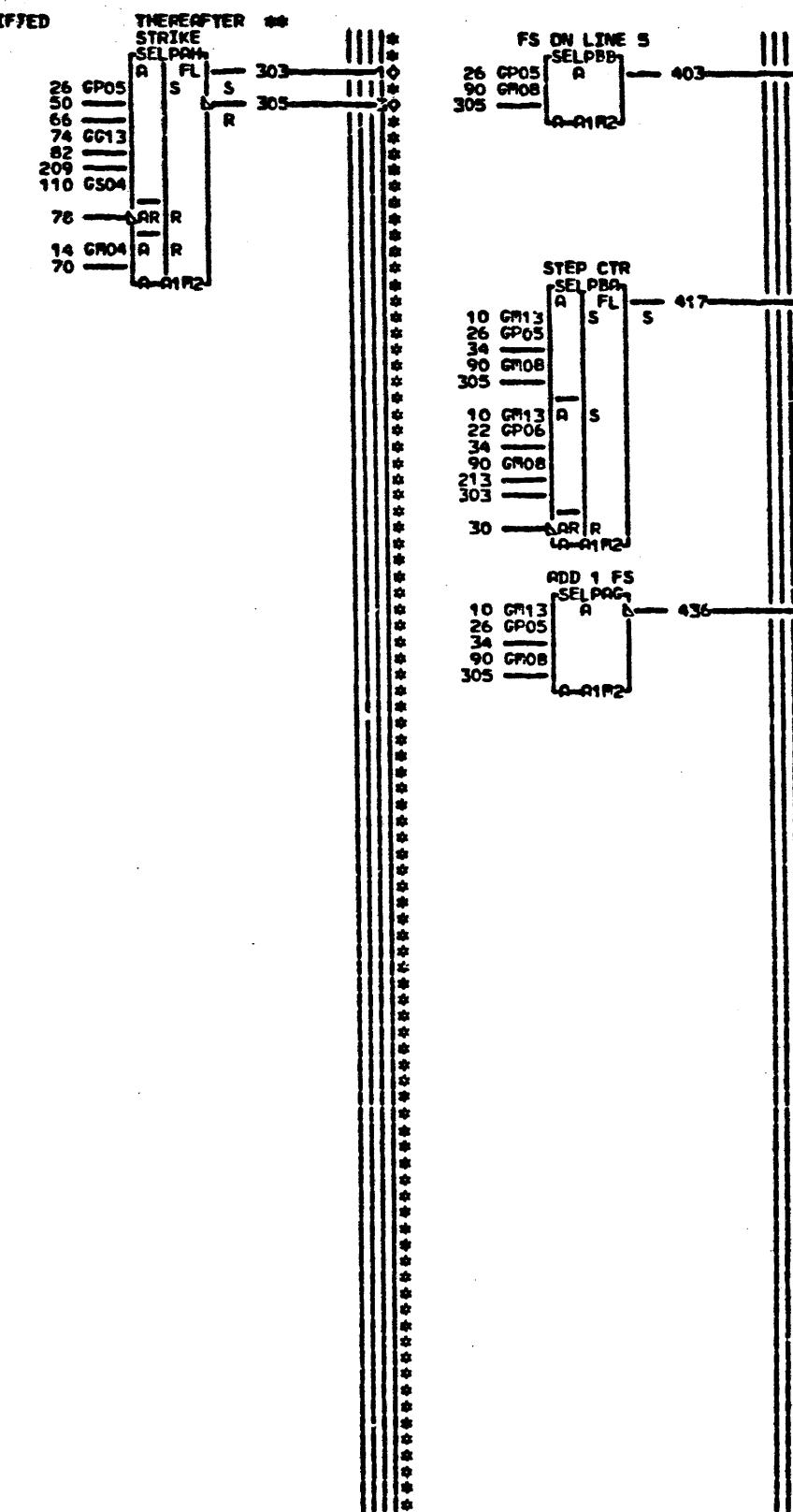
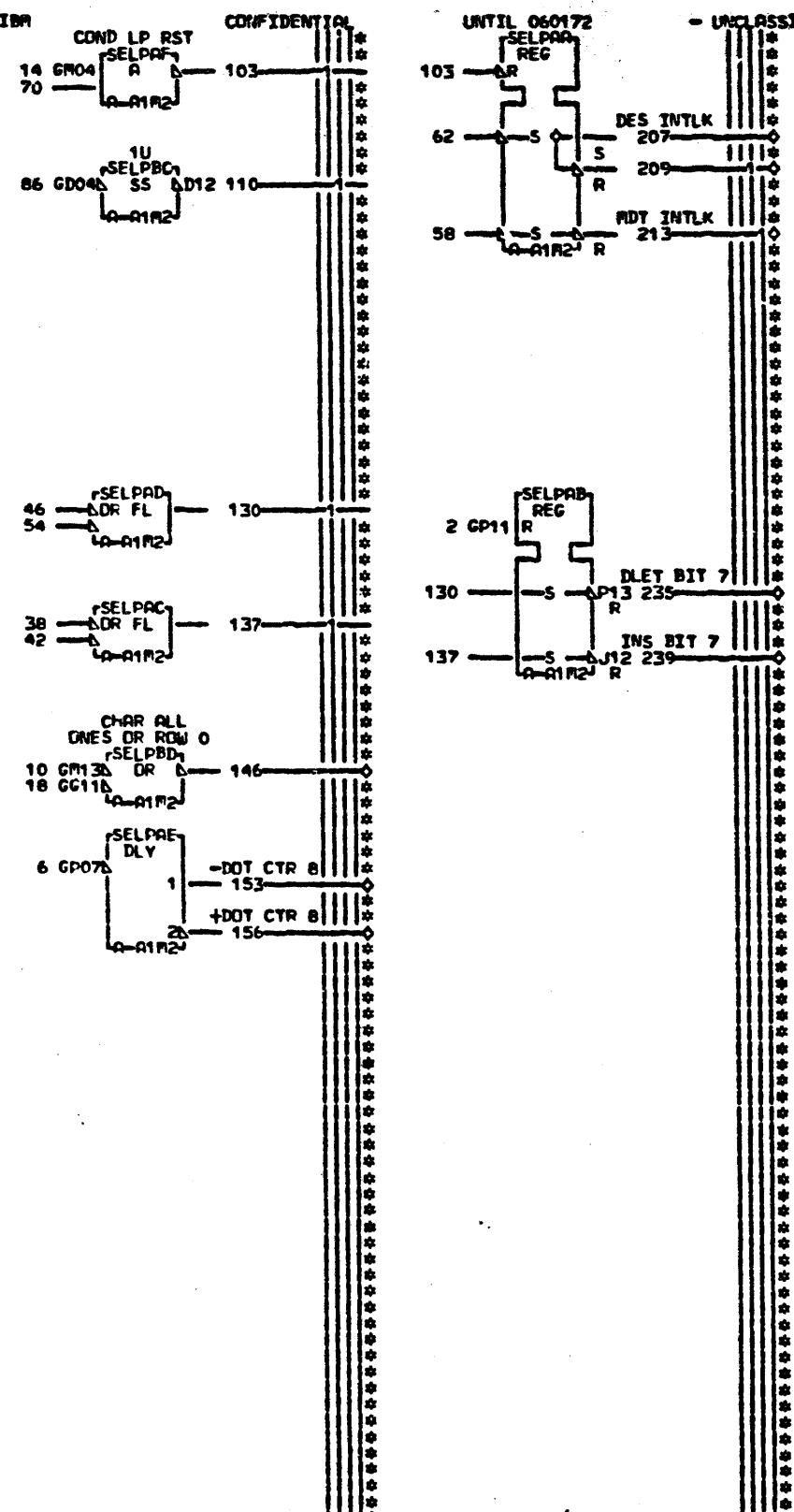


LDC. TYPE
P-91 P-2 9-29

PAGE VER EC LE
KT011 R15 71794
KT021 R15 71794

SER 1948 LP CTRL	
-E.C.-HISTORY- ARCH. 3277	
717473	716959
DATE 08-03-72	LST EC 717946
PRIME	01
IBR CORP. KN	K7021
P.O. 1823774	915

+ DOT 5	KF021GB4	2
+ DOT 6	KF021GF4	6
- CHAR ALL ONES	KF031GJ4	10
+ STEP ROW CTR	KF141FBA	14
- ROW 0	KF151GE4	18
+ LAST LINE	KF171DB4	22
+ LP LINE	KF181CDA	26
- DOT CTR 0	KT011RDA	30
+ DOT CTR 6	KT011RE4	34
- SET LP INSRT PDT	KT011PG4	38
- SET LP INSRT BIT 7	KT011DG4	42
- SET LF DLET PDT	KT011FG4	46
+ CORRECT DES CODE	KT011GH4	50
- SET LP DLET BIT 7	KT011HG4	54
- SET PDT INTLK	KT011HE4	58
- SET DFS INTLK	KT011HP4	62
+ LP BUSY ON	KT051HF4	66
- LP BUSY ON	KT051RG4	70
- LP PID	KT051RA4	74
- RESET	KT051RZ4	78
- LP CTR 0	KT061RS4	82
- LP STRIKE	KT101RA6	86
+ BIT 8 FROM LINE BUFFER	PC021BG4	90



001 KT031 KT049
000 KT031 000

OT CTR 8 KT019-824

Q DELETE BIT 7 004
4KT011 4KT021

Q INSERT BIT 7 004
4KT011 4KT021

OT INTLK SET KT019-824

001 KT031 000

OT CTR 8 004
4KT011 4KT021

000 KT031 000

ADD 1 FS KT019-024

STRIKE LAT 004
4KT011 4KT061

STRIKE LAT 004
4KT021 4KT061

DES INTLK SET KT019-024

DES INTLK SET 004
4KT011 4KT051

STEP LP CTR KT061-024

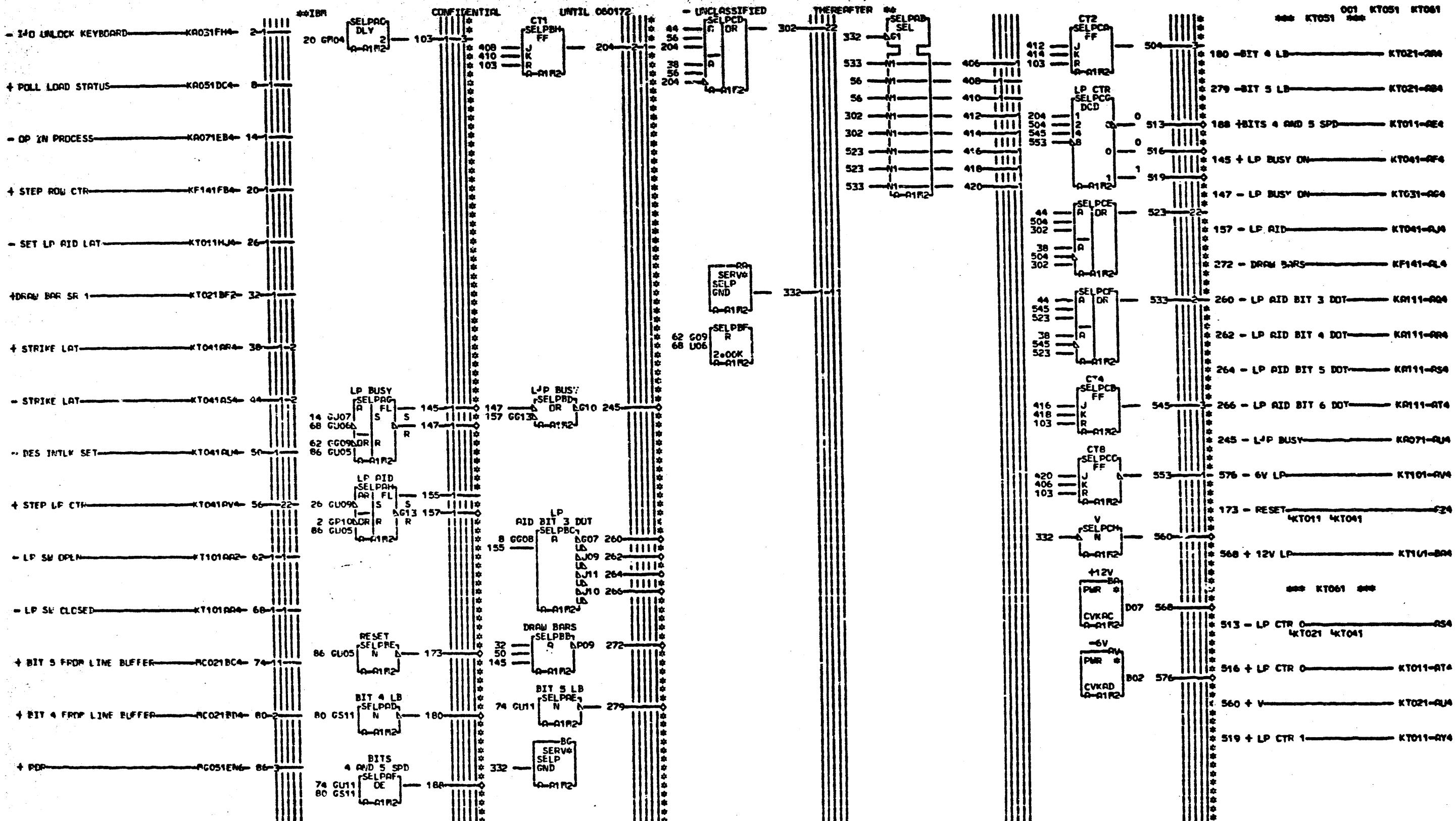
S ON LINE 5 KT019-824

CHAR ALL FINES OR PDS 004 KT019-024

1948 LP CTRL	
HISTORY	
73	RAC-43277
	FRAME 01 XT031
	IBM CORP. KN XT041
LAST EC	
5-22 21206	
	D-10 182776
	001

LOC. TYPE
A-A1B2 90B8

PAGE VER EC LE
KT031 001 71747
KT088 001 71794



LOC. TYPE
P-A1P2 9088

PAGE VFR EC LEV
KT051 001 717946
KT061 001 717947

PAR 1948 LP CTRL	
—E.C.—HISTORY—	
717473	RACH.3277
716959	FRAME 01
717492	IBM CORP. KN
DATE LAST EC	Po.No. 1823780
08-05-72 717946	

KT051
KT061
001

001SR

CONFIDENTIAL

UNTIL 060172

- UNCLASSIFIED

THEREAFTER 00

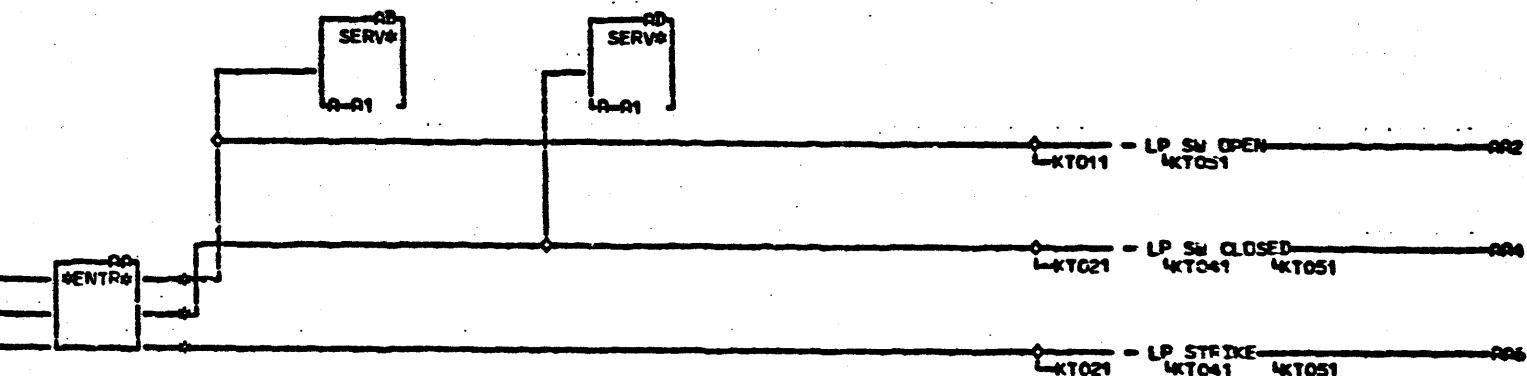
001 KT101

- LP SW OPEN
- LP SW CLOSED
- LP STRIKE

008

009

010



+ 12V LP KTO51B44 - 008
- 6V LP KTO51AV44 - 009
- 6V LP KTO51AV44 - 010

+ 12V - 6V - GND



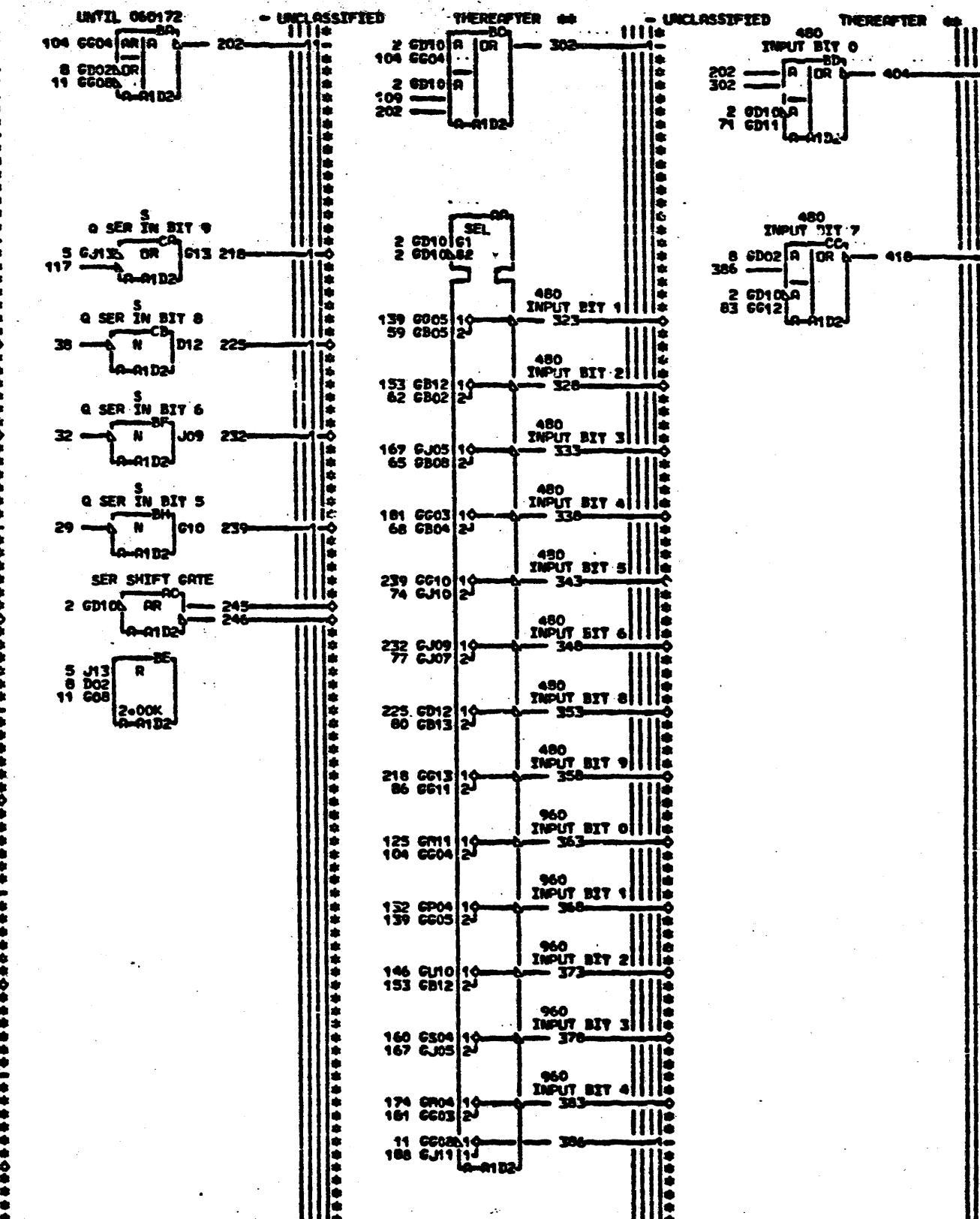
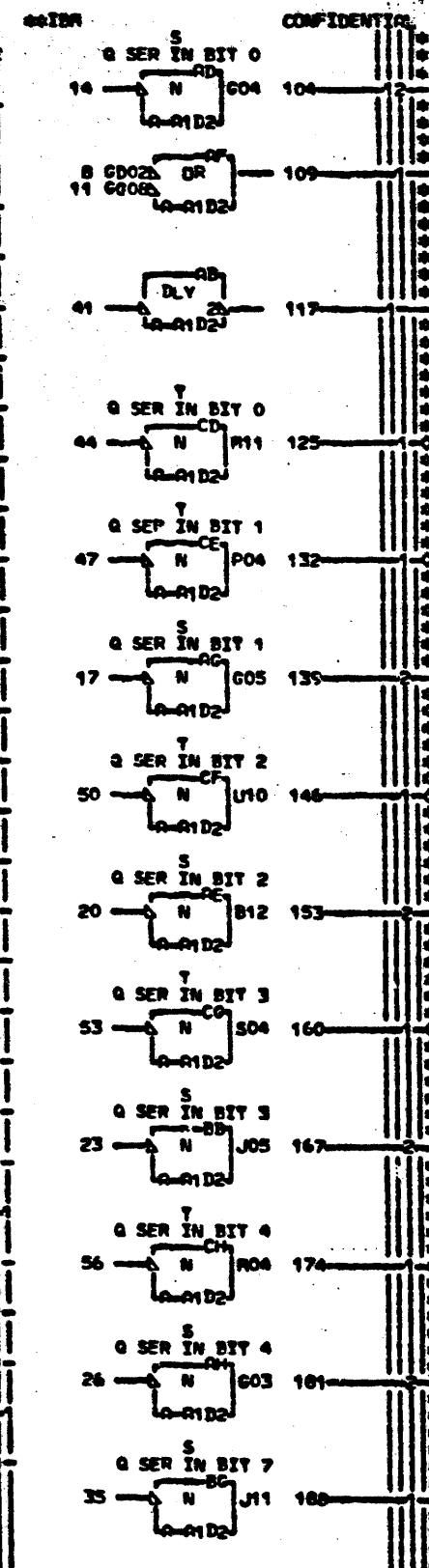
KTO51AV4 RE4 A-11P1B13
01A-01P1D13 01B-01P1D11
KTO51B44 01P-01L1C13
002 A-11P1C13
01P-01L1B11
004 A-11L1E13
01P-01L1B11
006 A-11L1B13

LOC. TYPE

SELECTOR PEN INTERFACE LINES	
E.C. HISTORY	B-PACH-3277
717473	
FRAME	01
DATE	LAST EC
06-01-72	717492
IBM CORP. SOD	
P/N. 1623763	

K
1
9
4
001

- SERIAL SHIFT GT XE771GCC4- 2-142
 - F Q INSERT BIT 0 XE0110C4- 5-2
 - F Q DELETE BIT 7 XE0310P4- 6-12
 - F Q INSERT BIT 7 XE0310P4- 11-2
 - 480 FET OUT BIT 0 RB051BD4- 14-1
 - 480 FET OUT BIT 1 RB051BD4- 17-1
 - 480 FET OUT BIT 2 RB051BD4- 20-1
 - 480 FET OUT BIT 3 RB051BD4- 23-1
 - 480 FET OUT BIT 4 RB051BD4- 26-1
 - 480 FET OUT BIT 5 RB051BD4- 29-1
 - 480 FET OUT BIT 6 RB051BD4- 32-1
 - 480 FET OUT BIT 7 RB051BD4- 35-1
 - 480 FET OUT BIT 8 RB051BD4- 38-1
 - 480 FET OUT BIT 9 RB051BD4- 41-1
 - 960 FET OUT BIT 0 RB061BD4- 44-1
 - 960 FET OUT BIT 1 RB061BD4- 47-1
 - 960 FET OUT BIT 2 RB061BD4- 50-1
 - 960 FET OUT BIT 3 RB061BD4- 53-1
 - 960 FET OUT BIT 4 RB061BD4- 56-1
 + F Q SER IN BIT 1 R0011ED4- 59-1
 + F Q SER IN BIT 2 R0011ED4- 62-1
 + F Q SER IN BIT 3 R0011ED4- 65-1
 + F Q SER IN BIT 4 R0011EL4- 68-1
 + F Q SER IN BIT 0 R0011GCC4- 71-1
 + F Q SER IN BIT 5 R0021FD4- 74-1
 + F Q SER IN BIT 6 R0021FD4- 77-1
 + F Q SER IN BIT 8 R0021FJ4- 80-1
 + F Q SER IN BIT 7 R0021FJ4- 83-1
 + F Q SER IN BIT 9 R0021GL4- 86-1



001 RB011 RB031
 002 RB011 204
 246 + QUARTER SHIFT GATE RB041-024
 245 + SER SHIFT GATE RB041-024
 329 - 480 INPUT BIT 2 RB051-074
 323 - 480 INPUT BIT 1 RB051-064
 404 - 480 INPUT BIT 0 RB051-054
 338 - 480 INPUT BIT 4 RB051-034
 333 - 480 INPUT BIT 3 RB051-024
 400 RB021 044
 232 + 5 Q SER IN BIT 6 RB051-024
 188 + 5 Q SER IN BIT 7 RB051-024
 239 + 5 Q SER IN BIT 3 RB051-024
 218 + 5 Q SER IN BIT 9 RB051-074
 225 + 5 Q SER IN BIT 8 RB051-054
 343 - 480 INPUT BIT 5 RB051-064
 348 - 480 INPUT BIT 6 RB051-054
 418 - 480 INPUT BIT 7 RB051-074
 353 - 480 INPUT BIT 8 RB051-064
 358 - 480 INPUT BIT 9 RB051-054
 044 RB031 044
 125 + 7 Q SER IN BIT 0 RB111-024
 132 + 7 Q SER IN BIT 1 RB111-024
 146 + 7 Q SER IN BIT 2 RB111-024
 160 + 7 Q SER IN BIT 3 RB111-024
 174 + 7 Q SER IN BIT 4 RB111-024
 363 - 960 INPUT BIT 0 RB061-024
 368 - 960 INPUT BIT 1 RB061-024
 372 - 960 INPUT BIT 2 RB061-024
 378 - 960 INPUT BIT 3 RB061-024
 383 - 960 INPUT BIT 4 RB061-024

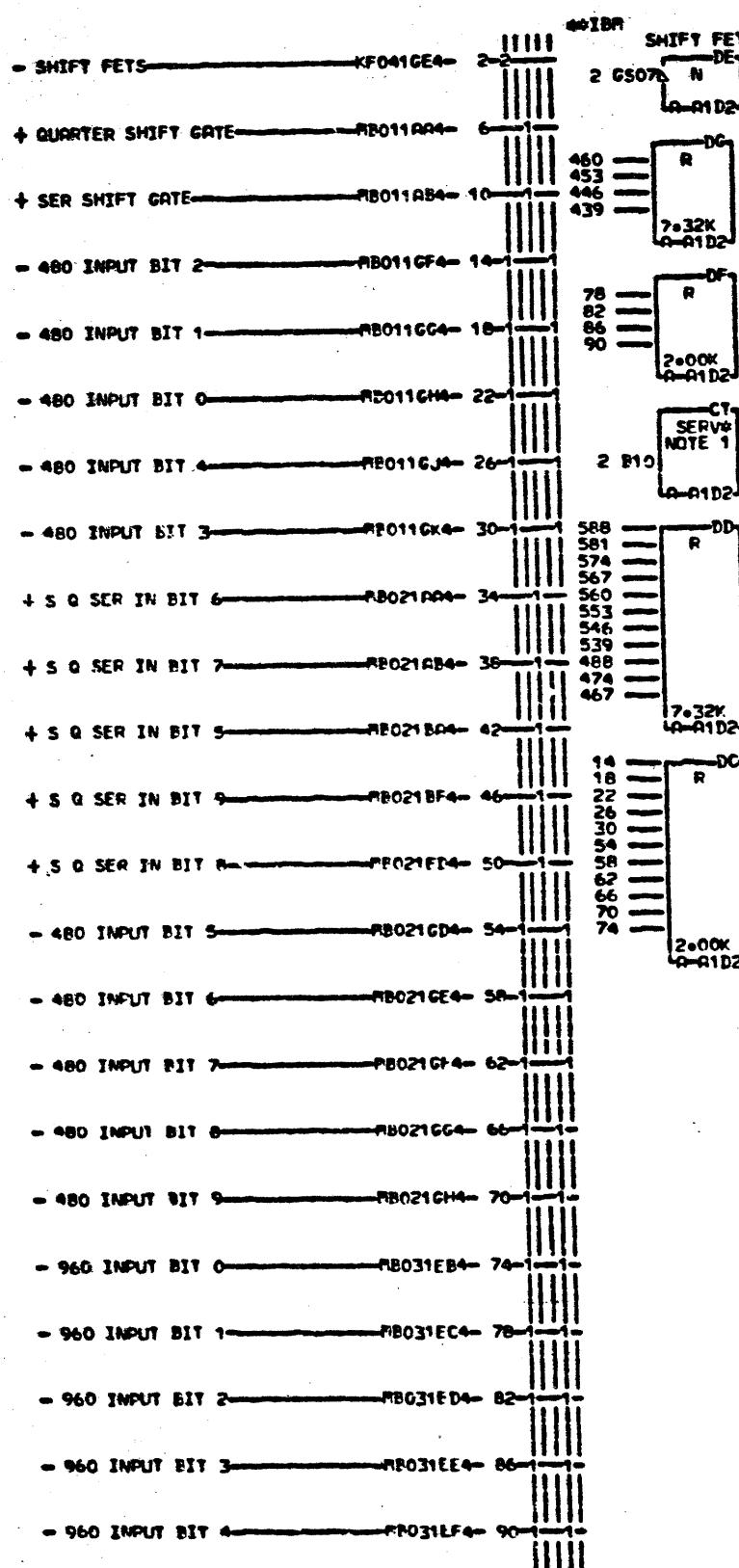
R051R TO PW 1963770 EC 717473
 R051R TO PW 1963771 EC 717473

RB011
 RB031
 001

LOC. TYPE
R0-A1D2 9065

PAGE 001 VER 001 EC 717473
RB011 001 717473
RB021 001 717473
RB031 000 717473

960 STDIN + GATE	
E-C-HISTORY	PGN-3277
DATE LAST EC	01-21-72 717473
IPN. 1823785	001
IBM CORP. INC	RB031



CONFIDENTIAL UNTIL 060172

OT03 -11T04 C2

CV * 203

103 CXKBF 207

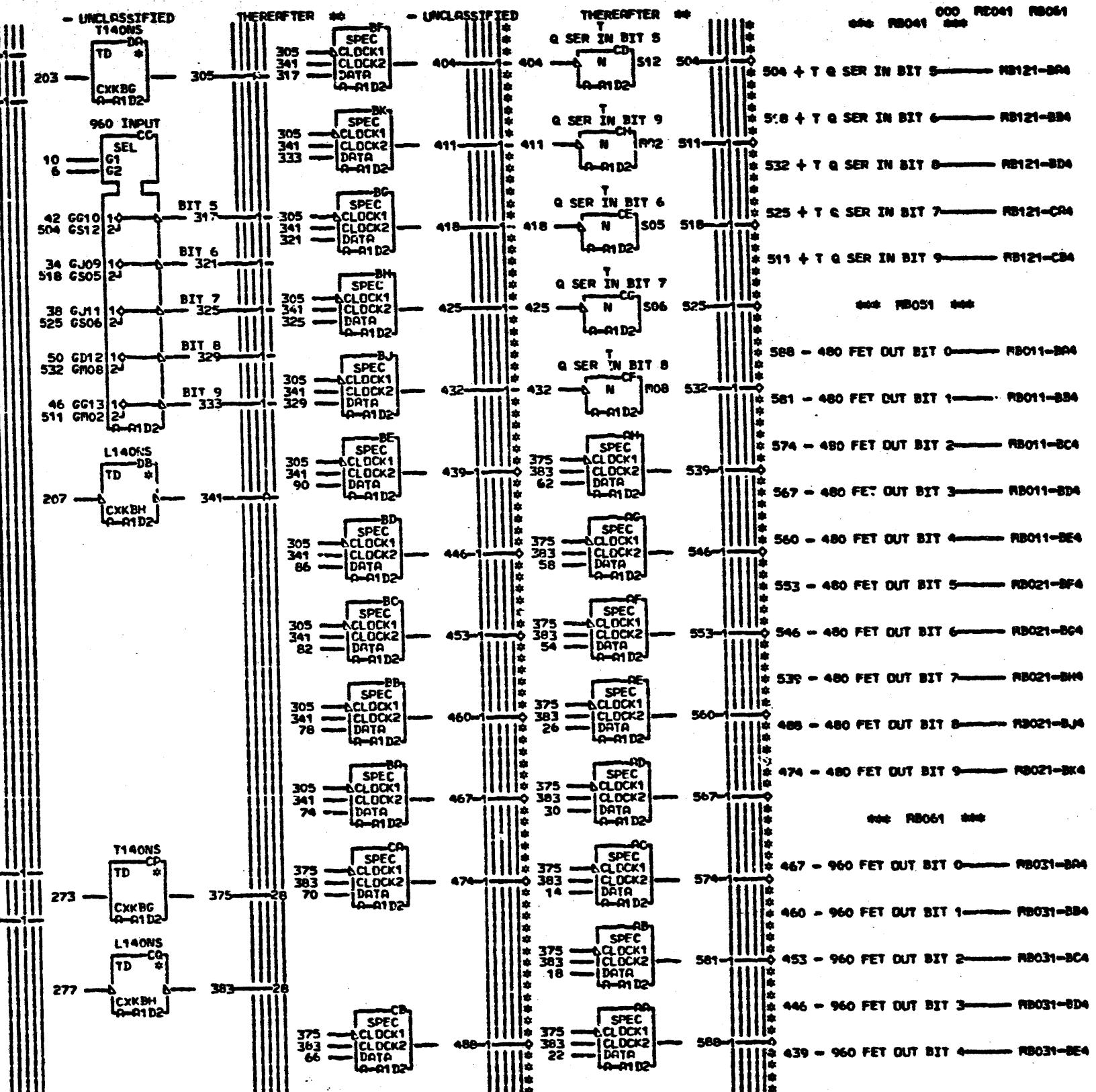
A-R1D20

OT0 -11T04 CH

CV * 273

103 CXKBF 277

A-R1D20

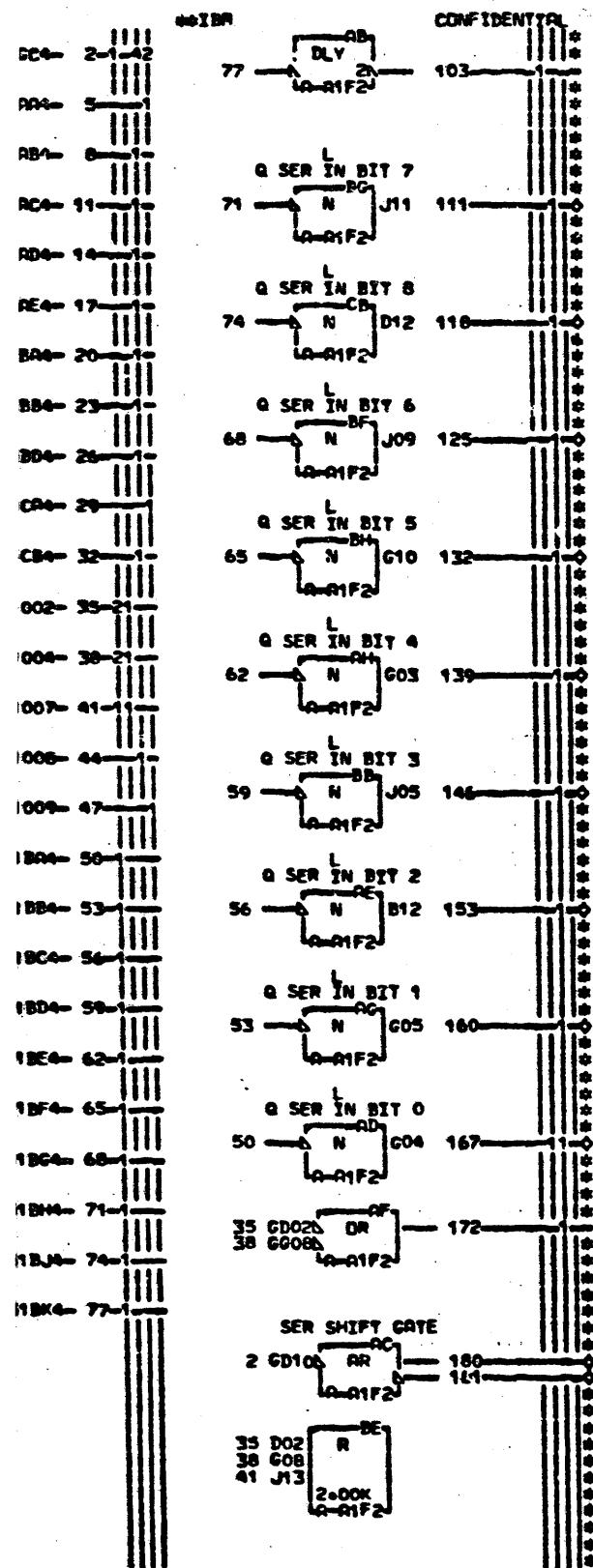


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S-81 B2 9065

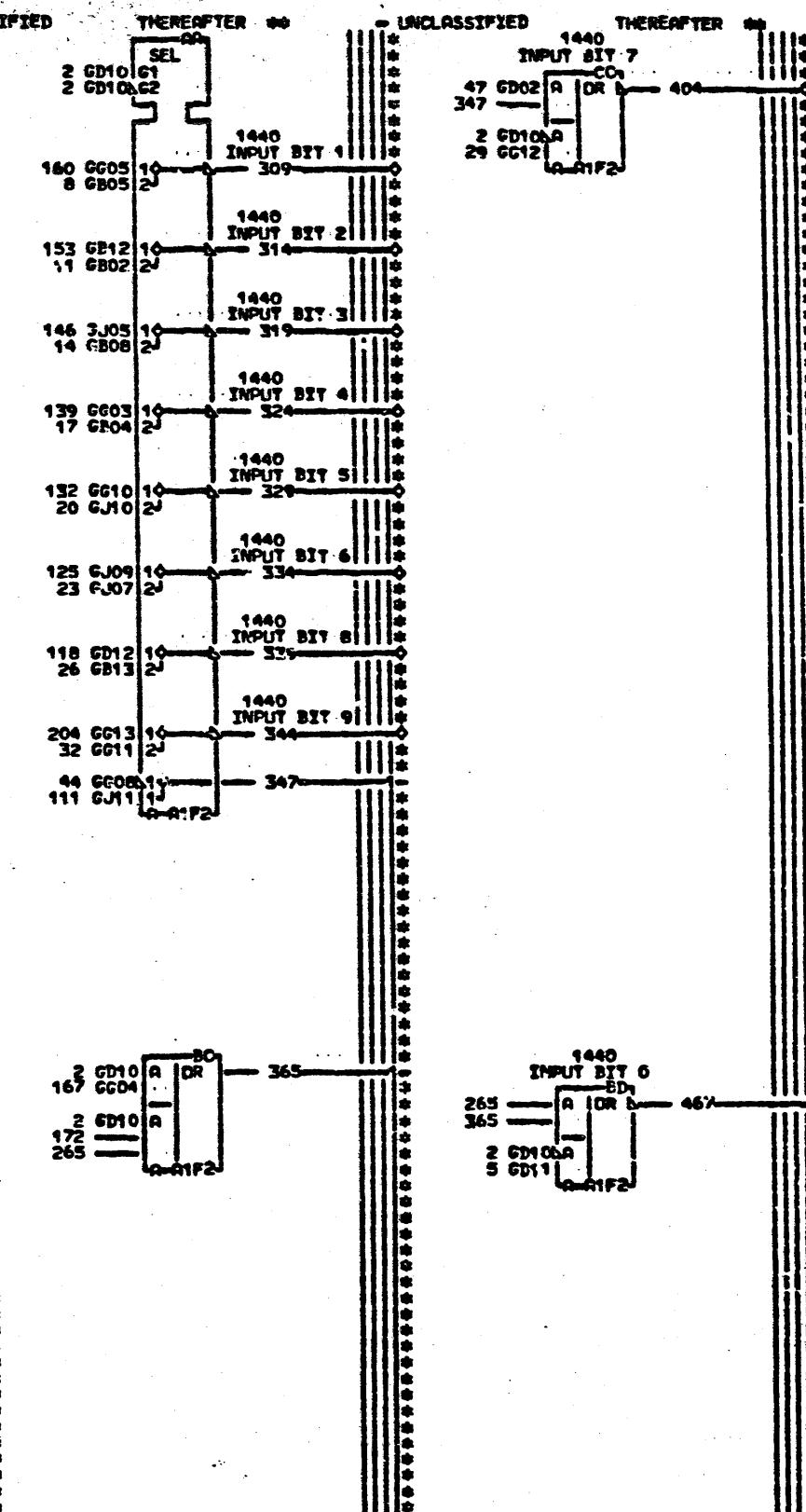
PAGE VER EC 1
RB041 000 717
RB051 000 717
RB061 000 717

960 STOR + GATE	
-E.C. HISTORY- 8. PACH. 3277	
717473	FROME 01 FB001
717492	IBA CORP. KN FB061
DATE 08-05-72	LAST EC 717946
P.O.# 1823789 000	

FB04
FB05
000



UNTIL 060172 - UNCLASSIFIED
Q SER IN BIT 9
61 61130 OR 613 204
103



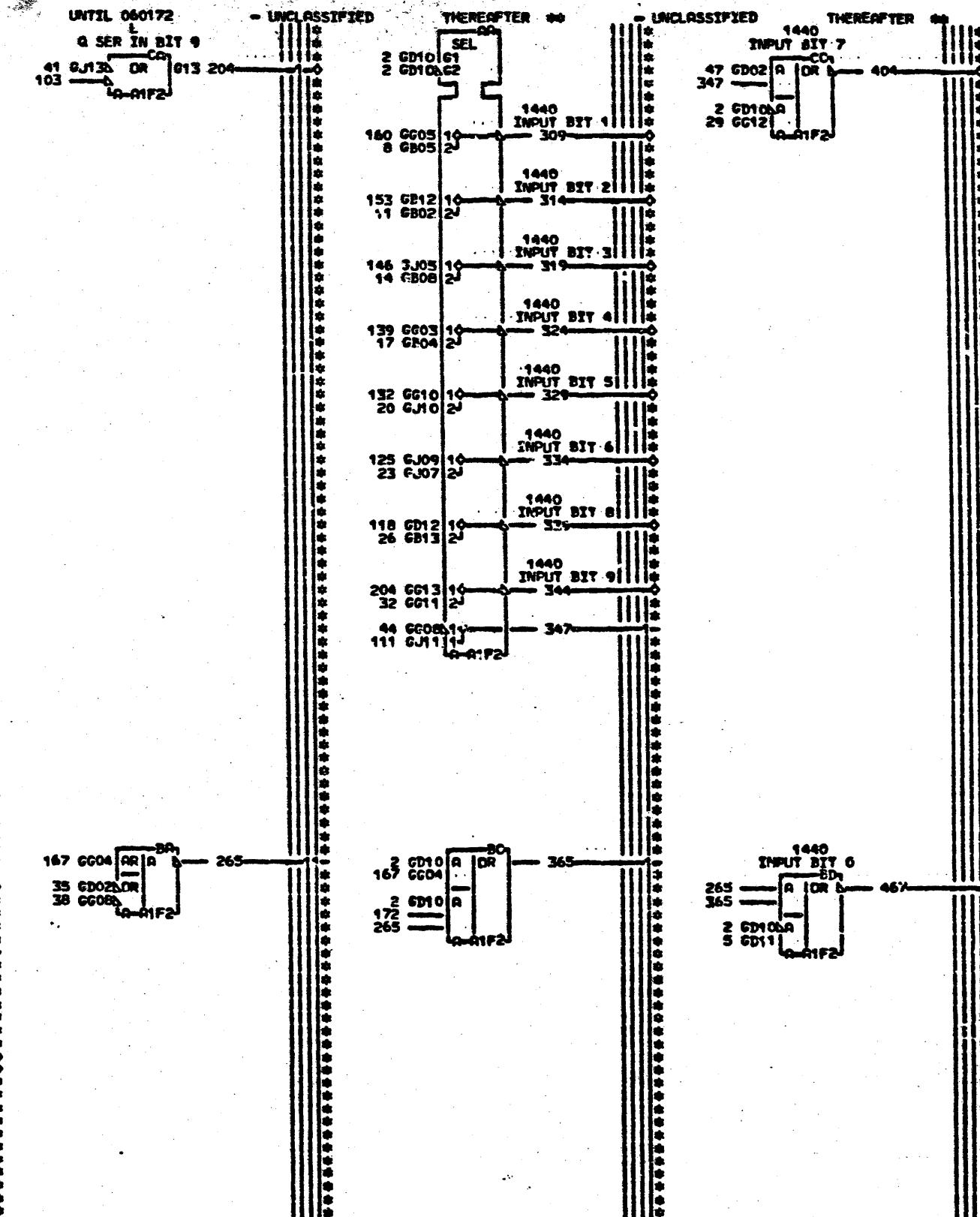
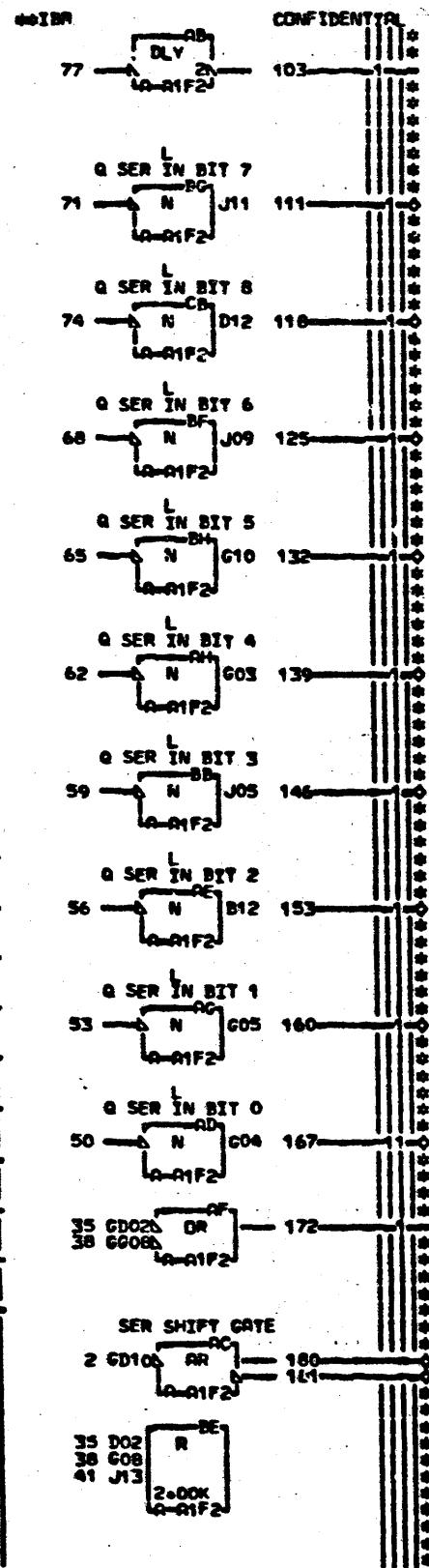
181 + QUARTER SHIFTY GATE RB111 RB121
 4RB131 4RB141 RB111 RB121
 180 + SER SHIFT GATE RB131 RB141 RB111 RB121
 167 + L Q SER IN BIT 0 RB131-SC4
 153 + L Q SER IN BIT 2 RB131-SD4
 160 + L Q SER IN BIT 1 RB131-SC4
 139 + L Q SER IN BIT 4 RB131-DE4
 146 + L Q SER IN BIT 3 RB131-SC4
 314 -1440 INPUT BIT 2 RB151-SF4
 309 -1440 INPUT BIT 1 RB151-SC4
 467 -1440 INPUT BIT 0 RB151-SC4
 324 -1440 INPUT BIT 4 RB151-SJ4
 319 -1440 INPUT BIT 3 RB151-SK4
 446 RB121 446 RB111 RB121
 125 + L Q SER IN BIT 6 RB141-SC4
 111 + L Q SER IN BIT 7 RB141-SC4
 132 + L Q SER IN BIT 5 RB141-SC4
 204 + L Q SER IN BIT 9 RB141-SC4
 118 + L Q SER IN BIT 8 RB141-ED4
 329 -1440 INPUT BIT 5 RB151-SD4
 334 -1440 INPUT BIT 6 RB151-SE4
 404 -1440 INPUT BIT 7 RB151-SF4
 339 -1440 INPUT BIT 8 RB151-SK4
 344 -1440 INPUT BIT 9 RB151-SH4

LDC₀ TYPE
A-A1F2 9065

PAGE VER EC LET
FB111 000 71747
FB421 000 71747

960 STOR + GATE	
E.C. HISTORY	
REC'D. 5277	
DATE	LAST EC
01-21-72	717473
FRAME	01
IBM CORP. INC	RD111
P.O. NO. 1823702	RD121
	000

4618N
 - SERIAL SHIFT CT KF171GC4- 2-1-42
 + T Q SER IN BIT 0 RB031RA4- 0-1-
 + T Q SER IN BIT 1 RB031RB4- 0-1-
 + T Q SER IN BIT 2 RB031RC4- 11-
 + T Q SER IN BIT 3 RB031RD4- 14-
 + T Q SER IN BIT 4 RB031RE4- 17-
 + T Q SER IN BIT 5 RB041RA4- 20-
 + T Q SER IN BIT 6 RB041RB4- 23-
 + T Q SER IN BIT 7 RB041RC4- 26-
 + T Q SER IN BIT 8 RB041RD4- 29-
 + T Q SER IN BIT 9 RB041RE4- 32-
 SPARE RB111002- 35-
 SPARE RB111004- 38-
 SPARE RB121007- 41-
 SPARE RB121008- 44-
 SPARE RB121009- 47-
 -1440 FET OUT BIT 0 RB151RA4- 50-
 -1440 FET OUT BIT 1 RB151RB4- 53-
 -1440 FET OUT BIT 2 RB151RC4- 56-
 -1440 FET OUT BIT 3 RB151RD4- 59-
 -1440 FET OUT BIT 4 RB151RE4- 62-
 -1440 FET OUT BIT 5 RB151RA4- 65-
 -1440 FET OUT BIT 6 RB151RB4- 68-
 -1440 FET OUT BIT 7 RB151RC4- 71-
 -1440 FET OUT BIT 8 RB151RD4- 74-
 -1440 FET OUT BIT 9 RB151RE4- 77-

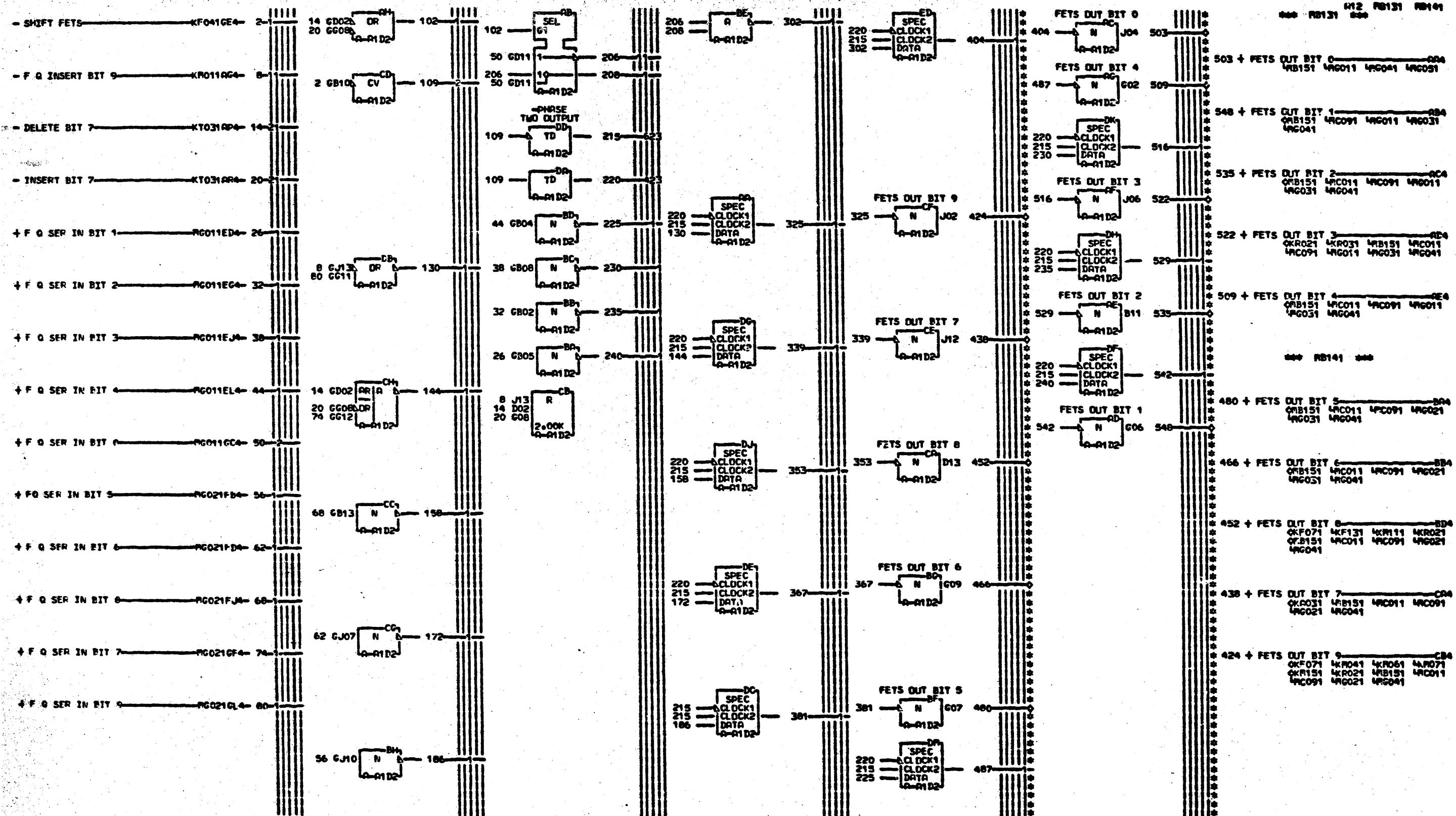


000 RB111 000 RB121
 181 + QUARTER SHIFT GATE RB131 RB141
 160 + SER SHIFT GATE RB131 RB141
 167 + L Q SER IN BIT 0 RB131-BC4
 153 + L Q SER IN BIT 2 RB131-BD4
 160 + L Q SER IN BIT 1 RB131-CB4
 139 + L Q SER IN BIT 4 RB131-DE4
 146 + L Q SER IN BIT 3 RB131-CE4
 314 -1440 INPUT BIT 2 RB151-CF4
 309 -1440 INPUT BIT 1 RB151-CA4
 467 -1440 INPUT BIT 0 RB151-CH4
 324 -1440 INPUT BIT RB151-CJ4
 319 -1440 INPUT BIT 3 RB151-CK4
 000 RB121 000
 125 + L Q SER IN BIT 6 RB141-CA4
 111 + L Q SER IN BIT 7 RB141-CH4
 132 + L Q SER IN BIT 5 RB141-CC4
 204 + L Q SER IN BIT 9 RB141-EP4
 115 + L Q SER IN BIT 8 RB141-ED4
 329 -1440 INPUT BIT 5 RB151-CA4
 334 -1440 INPUT BIT 6 RB151-CE4
 404 -1440 INPUT BIT 7 RB151-CF4
 339 -1440 INPUT BIT 8 RB151-CH4
 344 -1440 INPUT BIT 9 RB151-CJ4

LOC. TYPE
 Q-A1F2 9065

PAGE VER EC LEV
 RB111 000 717473
 RB121 000 717473

960 STOR + GATE		PACH 3277
E.C. HISTORY	FRAME	
01-21-72 717473	01	RB111
IBM CORP. 1023792	000	RB121



AcSTAR TO PH 1563778 FC 7179473
BcSTAR TO PH 1563779 EC 717946

LOC. TY
A-A1D2 90

PAGE VER EC L
RB131 A12 7179
RB141 B12 7174

480 STORAGE BITS 0-4
 E.C. HISTORY 5 FRCH.3277
 717473 717492 FRAME 01
 DATE LAST EC IBM CORP. KN
 08-05-72 717496 P.O. NO. 1823799

**IBR

+ QUARTER SHIFT GATE RB111AB4- 21

+ SER SHIFT GATE RB111AB4- 6

+ L Q SER IN BIT 0 RB111BC4- 10

+ L Q SER IN BIT 2 RB111BD4- 14

+ L Q SER IN BIT 1 RB111CB4- 18

+ L Q SER IN BIT 4 RB111DE4- 22

+ L Q SER IN BIT 3 RB111EG4- 26

+ L Q SER IN BIT 6 RB121AA4- 30

+ L Q SER IN BIT 7 RB121AB4- 34

+ L Q SER IN BIT 5 RB121BA4- 38

+ L Q SER IN BIT 9 RB121BF4- 42

+ L Q SER IN BIT 8 RB121ED4- 46

-1920 FET OUT BIT 0 RB161BA4- 50

-1920 FET OUT BIT 1 RB161BB4- 54

-1920 FET OUT BIT 2 RB161BC4- 58

-1920 FET OUT BIT 3 RB161BD4- 62

-1920 FET OUT BIT 4 RB161BE4- 66

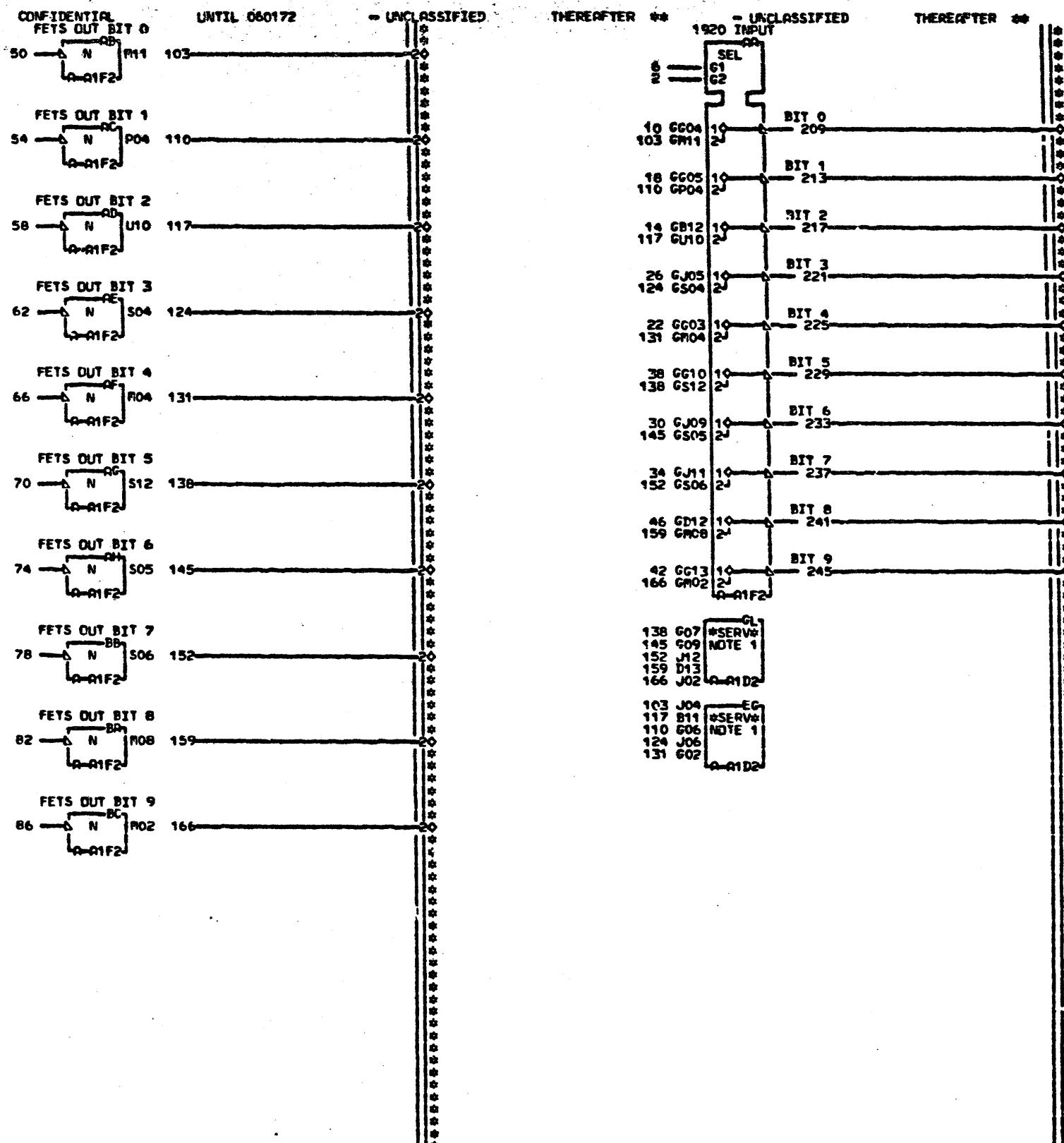
-1920 FET OUT BIT 5 RB161BF4- 70

-1920 FET OUT BIT 6 RB161BG4- 74

-1920 FET OUT BIT 7 RB161BH4- 78

-1920 FET OUT BIT 8 RB161BJ4- 82

-1920 FET OUT BIT 9 RB161BK4- 86



A:NOTE 1 FOR 480 FORMAT
SIM TO PN 1563778 EC 717473
B:NOTE 1 FOR 480 FORMAT

RB131
RB141
001

LOC. TYPE
A-A1F2 9065

PAGE VER FC LEV
RB131 001 717473
RB141 000 717946

001 RB131 001 RB131 RB141
001 RB131 001
103 + FETS OUT BIT 0 4RC011 4RC041 4RC051 004
110 + FETS OUT BIT 1 4RC011 4RC031 4RC041 004
117 + FETS OUT BIT 2 4RC011 4RC011 4RC031 4RC041 004
124 + FETS OUT BIT 3 4RC011 4RC011 4RC031 4RC041 004
131 + FETS OUT BIT 4 4RC011 4RC011 4RC031 4RC041 004
209 -1920 INPUT BIT 0 RB161-EB4
213 -1920 INPUT BIT 1 RB161-EC4
217 -1920 INPUT BIT 2 RB161-ED4
221 -1920 INPUT BIT 3 RB161-EE4
225 -1920 INPUT BIT 4 RB161-EF4
001 RB141 001
138 + FETS OUT BIT 5 4RC011 4RC091 4RC021 4RC031 004
145 + FETS OUT BIT 6 4RC011 4RC091 4RC021 4RC031 004
159 + FETS OUT BIT 8 4KF071 4KF131 4KF111 4KF021 4RC011 4RC091 4RC021 4RC041 004
152 + FETS OUT BIT 7 4KF031 4KF031 4KF091 4KF021 4RC041 004
166 + FETS OUT BIT 9 4KF071 4KF041 4KF061 4KF071 4KF151 4KF021 4RC011 4RC091 4RC021 4RC041 004
229 -1920 INPUT BIT 5 RB161-GC4
233 -1920 INPUT BIT 6 RB161-GD4
237 -1920 INPUT BIT 7 RB161-GE4
241 -1920 INPUT BIT 8 RB161-GF4
245 -1920 INPUT BIT 9 RB161-GG4

960 STORE + GATE	--EoC--HISTORY--B-PACH-3277	
717473	FRAME	01 RB131
	IBR CORP+PD	RB141
DATE LAST EC	08-05-72 717946	
	P.o.N. 1823795 001	

- SHIFT FETS - KF041GE4- 2-3

- SERIAL SHIFT GT - KF171GC4- 9-2

+ FETS OUT BIT 0 - RB131RA4- 16-

+ FETS OUT BIT 1 - RB131AB4- 23-

+ FETS OUT BIT 2 - RB131AC4- 30-

+ FETS OUT BIT 3 - RB131AD4- 37-

+ FETS OUT BIT 4 - RB131AE4- 44-

+ FETS OUT BIT 5 - RB141BD4- 51-

+ FETS OUT BIT 6 - RB141FB4- 58-

+ FETS OUT BIT 8 - RB141BD4- 65-

+ FETS OUT BIT 7 - RB141CA4- 72-

+ FETS OUT BIT 9 - RB141CB4- 79-

**IBR

CONFIDENTIAL

UNTIL 060172

- UNCLASSIFIED
108 D11
109 B05
110 B04
111 B13
112 G11
Q-A1F2

AC B11
SERV
NOTE 1
B04
B04
B08
B02
Q-A1D4

AC B11
SERV
NOTE 1
B07
Q-A1D5

16 P11
23 P04
30 U10
37 S04
44 P04
51 S12
58 S05
72 S06
65 P02
79 R02
Q-A1F2

AD B10
SERV
NOTE 1
B07
Q-A1F2

AC B10
SERV
NOTE 1
B10
Q-A1D2

AB B02
SERV
NOTE 1
158 B02
159 B08
161 J10
162 J07
163 G12
Q-A1F2

AC B10
SERV
NOTE 1
D10
B04
B12
B05
B06
Q-A1D5

THEREAFTER **

- UNCLASSIFIED

THEREAFTER **

002 RB151 RB161

A. NOTE 1 FOR 1920 FORMAT
SIM TO PN 1563760 EC 717946
B. SIM TO PN 1563781 EC 717473

LOC. TYPE

PAGE VER EC LEV
RB151 002 717946
RB161 002 717473

RB151
RB161
002

REF 1920 BOARD WIRING		FRAME 01 RB151
E.C. HISTORY 717473		
DATE 08-11-72	LAST EC 717946	IBR CORP. SDD RB161
P.O. 1823802 002		

**IBM

+ DOT 6 → KF021EE2- 2

+ BUFFERED DOT CTR 2 → MC061CK4- 7-1

- BIT 9 CURSOR → PC041AB4- 12

- PRE ROS BIT 7 → RC111BA2- 17

- PRE ROS BIT 6 → RC111BB2- 22

+ BIT 6 FROM LINE BUFFER → RC111BR6- 27

- PRE ROS BIT 5 → RC111BC2- 32

+ BIT 5 FROM LINE BUFFER → RC111BC6- 27-1

- PRE ROS BIT 4 → RC111BD2- 42

+ BIT 4 FROM LINE BUFFER → RC111BD6- 47

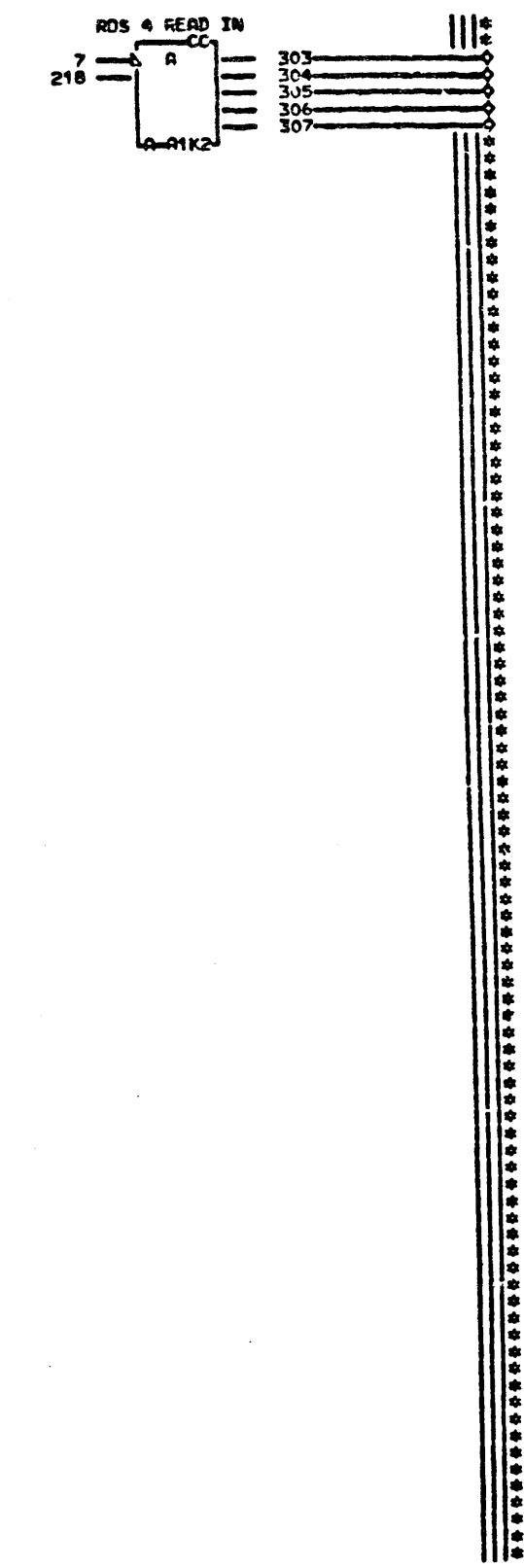
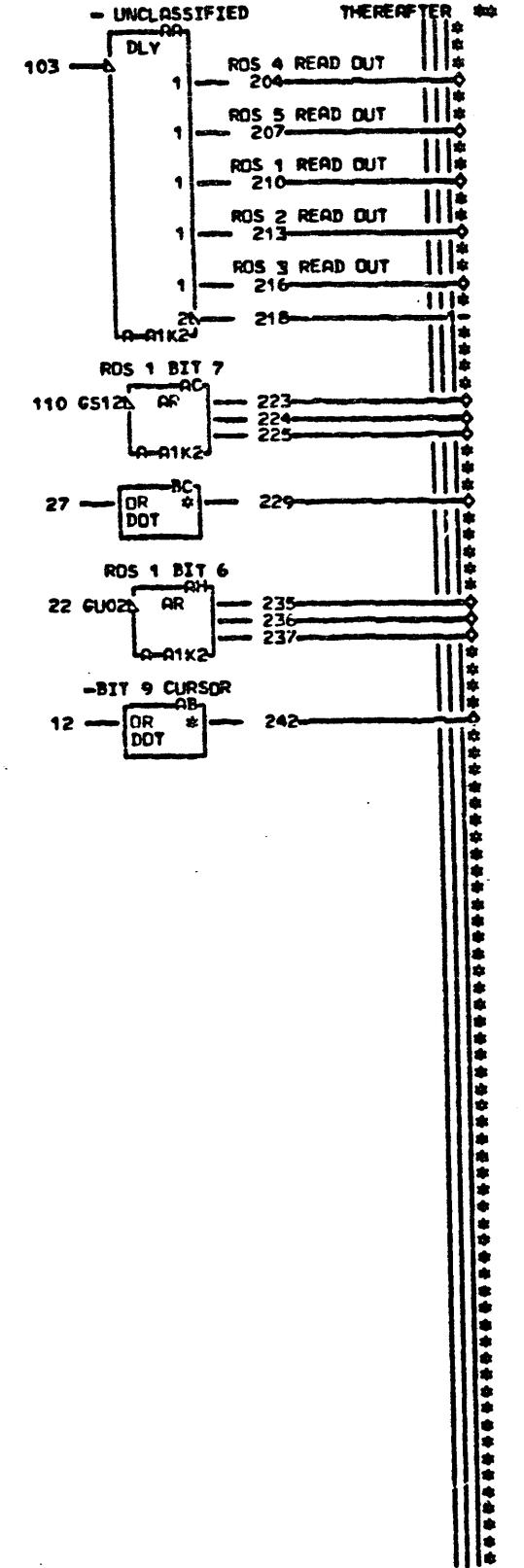
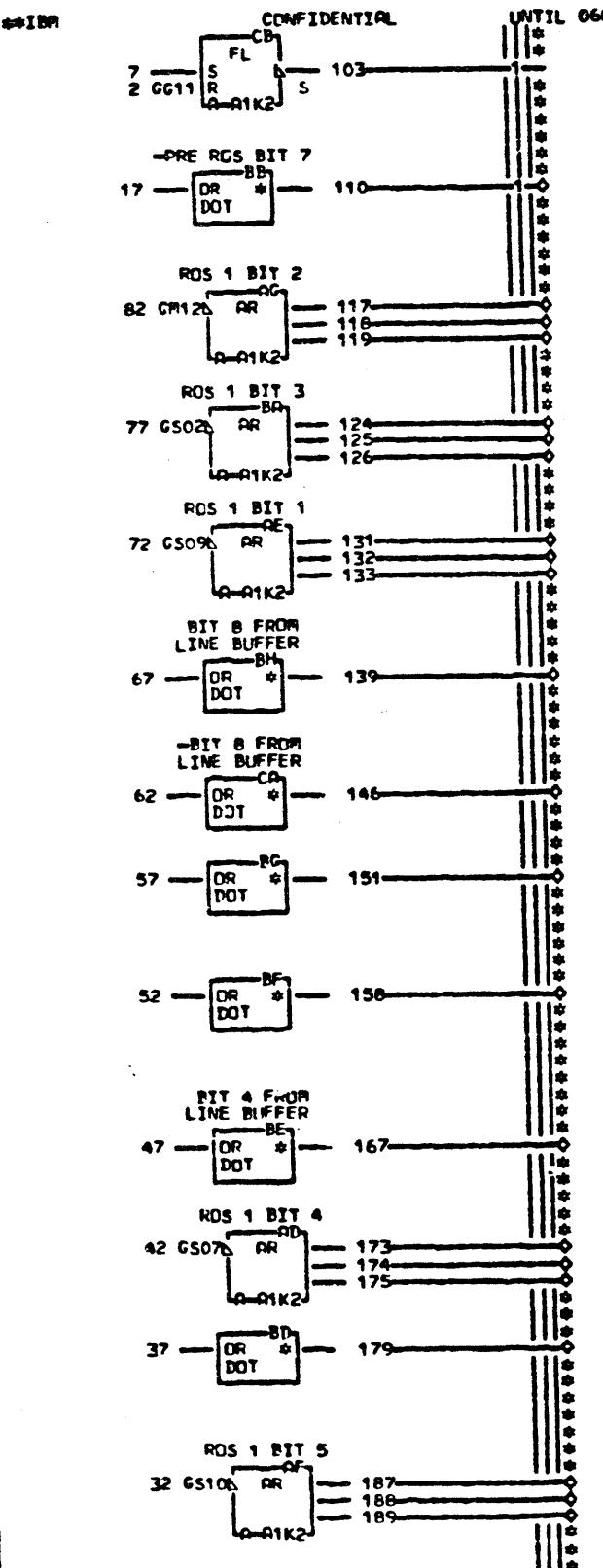
- PRE ROS BIT 3 → RC111BE2- 52

- PRE ROS BIT 2 → RC111BF2- 57

- BIT 8 FROM LINE BUFFER → RC111BG2- 62

+ BIT 8 FROM LINE BUFFER → RC111BG6- 67-1

- PRE ROS BIT 1 → RC111BL2- 72



**IBM

242 - BIT 9 CURSOR → MC011-804

223 + ROS 1 BIT 7 → RC041-B04

224 + ROS 2 + 3 BIT 7 → RC041-B04

225 + ROS 4 + 5 BIT 7 → RC051-B04

173 + ROS 1 BIT 4 → RC041-B04

174 + ROS 2 + 3 BIT 4 → RC041-B04

175 + ROS 4 + 5 BIT 4 → RC051-B04

131 + ROS 1 BIT 1 → RC041-B04

132 + ROS 2 + 3 BIT 1 → RC041-B04

133 + ROS 4 + 5 BIT 1 → RC051-B04

187 + ROS 1 BIT 5 → RC041-B04

188 + ROS 2 + 3 BIT 5 → RC041-B04

189 + ROS 4 + 5 BIT 5 → RC051-B04

117 + ROS 1 BIT 2 → RC041-B04

118 + ROS 2 + 3 BIT 2 → RC041-B04

119 + ROS 4 + 5 BIT 2 → RC051-B04

235 + ROS 1 BIT 6 → RC041-F04

236 + ROS 2 + 3 BIT 6 → RC041-F04

237 + ROS 4 + 5 BIT 6 → RC051-F04

124 + ROS 1 BIT 3 → RC041-F04

125 + ROS 2 + 3 BIT 3 → RC041-F04

126 + ROS 4 + 5 BIT 3 → RC051-F04

**IBM

204 + ROS 4 READ OUT → RC051-F04

207 + ROS 5 READ OUT → RC051-F04

110 - PRE ROS BIT 7 → RC111-B04

229 + BIT 6 FROM LINE BUFFER → B04

179 + BIT 5 FROM LINE BUFFER → B04

167 + BIT 4 FROM LINE BUFFER → RC051-B04

158 - PRE ROS BIT 3 → B04

151 - PRE ROS BIT 2 → B04

139 + BIT 8 FROM LINE BUFFER → RC051-B04

146 - BIT 8 FROM LINE BUFFER → KF061 MC111

303 + ROS 4 READ IN → RC051-C04

304 + ROS 5 READ IN → RC051-C04

210 + ROS 1 READ OUT → RC041-D04

213 + ROS 2 READ OUT → RC041-D04

216 + ROS 3 READ OUT → RC041-D04

305 + ROS 1 READ IN → RC041-F04

306 + ROS 2 READ IN → RC041-F04

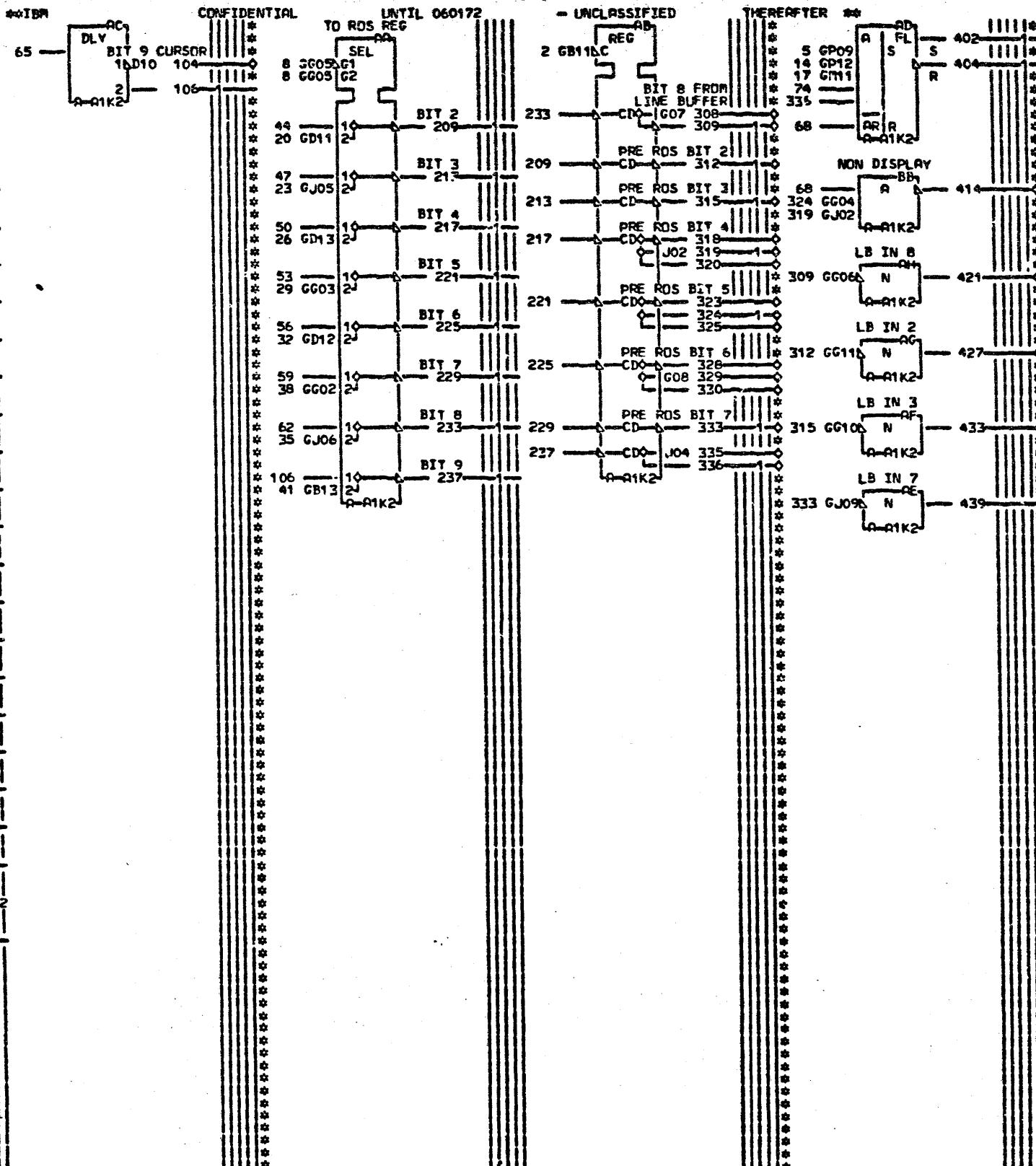
307 + ROS 3 READ IN → RC041-F04

480 + 1920 CHAR. GEN.
KATAKANA OR EXTENDED CHAR SET
E.C. HISTORY - B. MACH 3277
717473
717492
717466

FRAME 01 MC011
IBM CORP. SDD MC021
DATE LAST EC 10-02-72 718541
P.O. N. 1823810 A15

A. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.
SIM TL F 15637P2 EC 717462
SIM TL F 15637P3 EC 717466
B. SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.
MC011
MC021

- DOT 5	KF021GB6	2
- CHAR 0	KF031CA4	5
+ LD LB GATES	KF131AH4	6
- FORCE UNBLANK LINE	KF141EL4	11
- ROW 0	KF151GE4	14
+ CSR LINE	KF181FD4	17
+ FETS OUT BIT 2	FB131AC4	20
+ FETS OUT BIT 3	FB131AD4	23
+ FETS OUT BIT 4	FB131AE4	26
+ FETS OUT BIT 5	FB141BA4	29
+ FETS OUT BIT 6	FB141BB4	32
+ FETS OUT BIT 8	FB141BD4	35
+ FETS OUT BIT 7	FB141CA4	38
+ FETS OUT BIT 9	FB141CB4	41
+ LINE BUFFER DATA OUT BIT 2	FC031DC4	44
+ LINE BUFFER DATA OUT BIT 3	FC031DD4	47
+ LINE BUFFER DATA OUT BIT 4	FC031DE4	50
+ LINE BUFFER DATA OUT BIT 5	FC031DF4	53
+ LINE BUFFER DATA OUT BIT 6	FC031D04	56
+ LINE BUFFER DATA OUT BIT 7	FC031DK4	59
+ LINE BUFFER DATA OUT BIT 8	FC031DL4	62
+ LINE BUFFER DATA OUT BIT 9	FC031DM4	65
+ BUFFERED DOT CTR 0	FC051AG4	68
+ BUFFERED DOT CTR 8	FC051AH4	71
+ DOT CTR 4	FC081FD4	74



A. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER GENERATOR
SCHEM

CARDS
B. NOTE SEE REFERENCE PAGE 22101
FOR CHARACTER GENERATOR CARDS
MC011 SIM TO PN 1563783 EC 717946

PC021

001

LDC. TYPE
R-91K2 9070

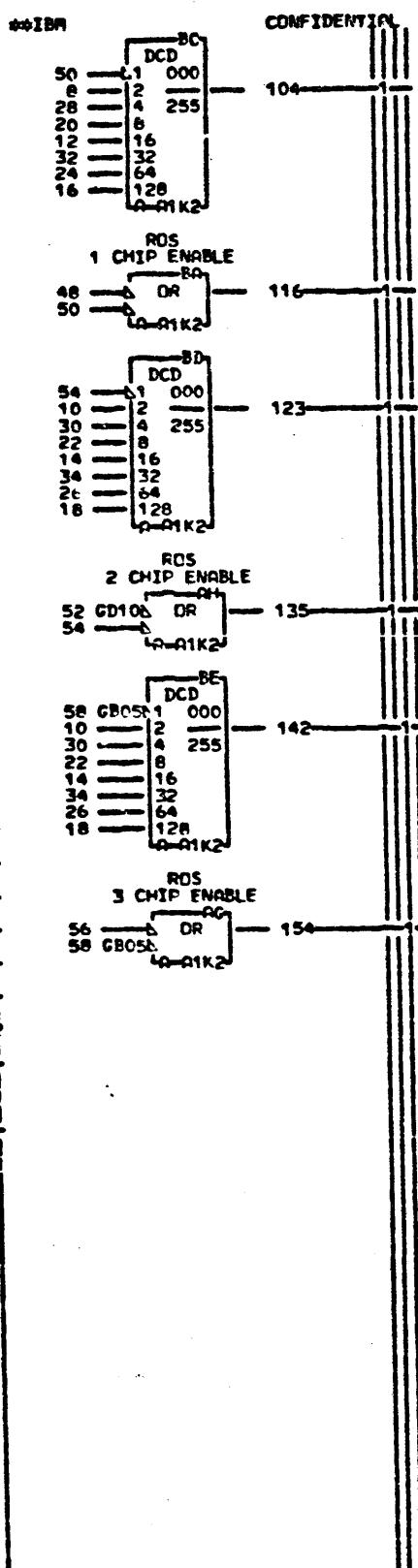
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PC011 000 717992
PC021 001 717996

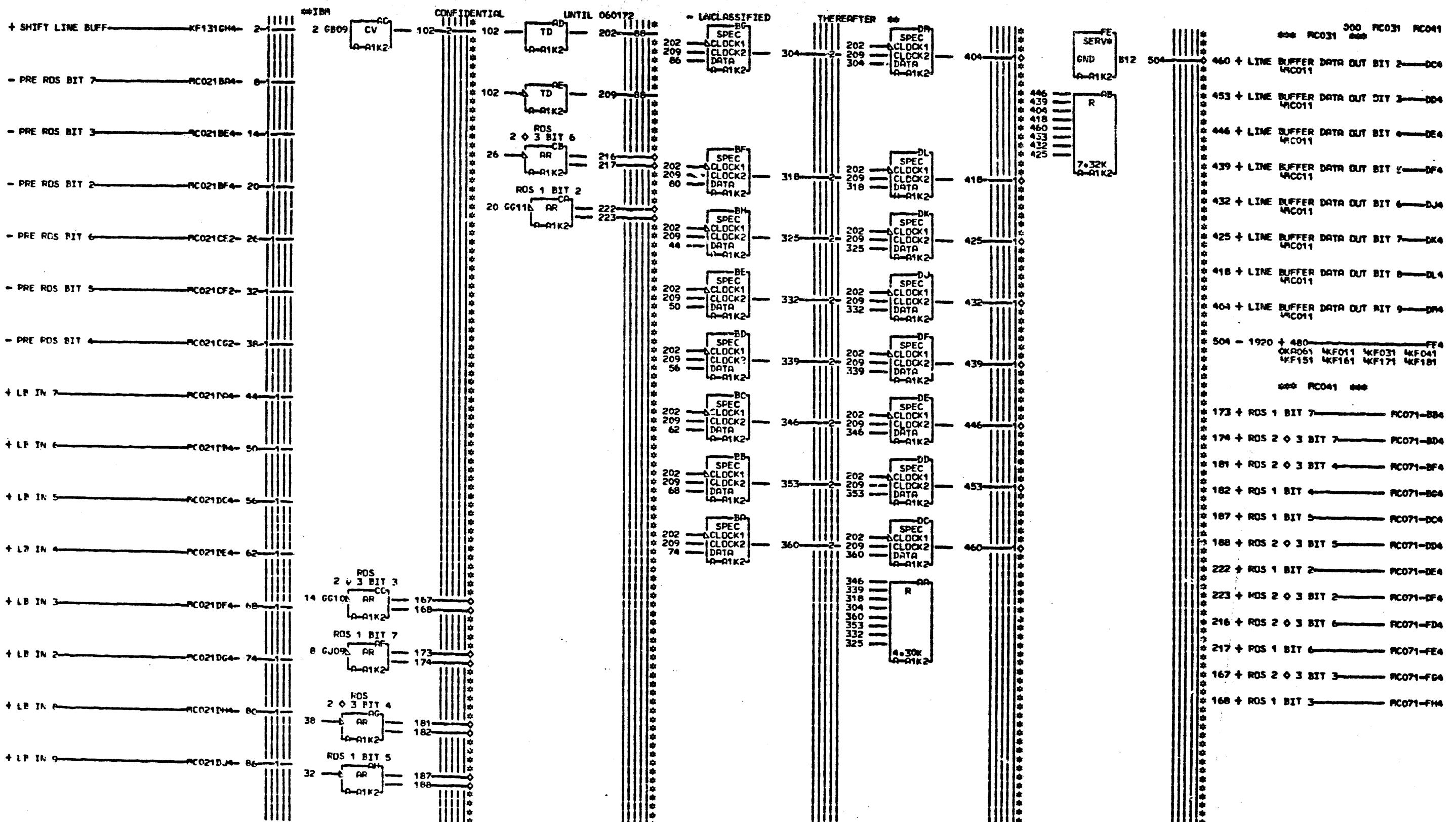
LINE BUFFER + CHAR. GEN.	
-E.C.-HISTORY- 717473 717492	
PACM-3277	
DATE 08-05-72	LAST EC 717946
FRAME IBR CORP. KN P.o.N. 1823804	01 PC019 PC021 001

CONFIDENTIAL

001BM

- CLR BLANK FOR RETRACE KF021EK4- 2
- SET BLANK FOR RETRACE KF181AL4- 4
+ FIRST 9 LINES KF181GH2- 6
+ ROS 1 BIT 7 KF011BB4- 8
+ ROS 2 + 3 BIT 7 KF011BC4- 10-2
+ ROS 1 BIT 4 KF011BE4- 12-4
+ ROS 2 + 3 BIT 4 KF011BF4- 14-2
+ ROS 1 BIT 1 KF011BH4- 16-1
+ ROS 2 + 3 BIT 1 KF011BJ4- 18-1
+ ROS 1 BIT 5 KF011DB4- 20-1
+ ROS 2 + 3 BIT 5 KF011DC4- 22-2
+ ROS 1 BIT 2 KF011DE4- 24-1
+ ROS 2 + 3 BIT 2 KF011DF4- 26-1
+ ROS 1 BIT 6 KF011FC4- 28-1
+ ROS 2 + 3 BIT 6 KF011FD4- 30-2
+ ROS 1 BIT 3 KF011FF4- 32-1
+ ROS 2 + 3 BIT 3 KF011FG4- 34-2
+ ROS 1 READ OUT KF021DC4- 36-1
+ ROS 2 READ OUT KF021F4- 38-1
+ ROS 3 READ OUT KF021J4- 40-1
+ ROS 1 READ IN KF021FG4- 42-1
+ ROS 2 READ IN KF021FH4- 44-1
+ ROS 3 READ IN KF021FJ4- 46-1
- LINE CTR 0 KF081EC4- 48-1
- LINE CTR 1 KF081EP4- 50-2
- LINE CTR 2 KF081EE4- 52-1
- LINE CTR 3 KF081EF4- 54-1
- LINE CTR 4 KF081EG4- 56-1
- LINE CTR 5 KF081GA4- 58-1
- LINE CTR 7 KF081GC4- 60-1
- LINE CTR 8 KF081GD4- 62-1
- LINE CTR 6 KF081GE4- 64-1
- 1920 + 480 KF121FE4- 66-1
+ CSR LN FROM LB KF131RA4- 68-1





A. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER GENERATOR
CARDS

B. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER GENERATOR
CARDS

PC031 22011 FOR CHARACTER GENERATOR
CARDS

PCOE:

600

600

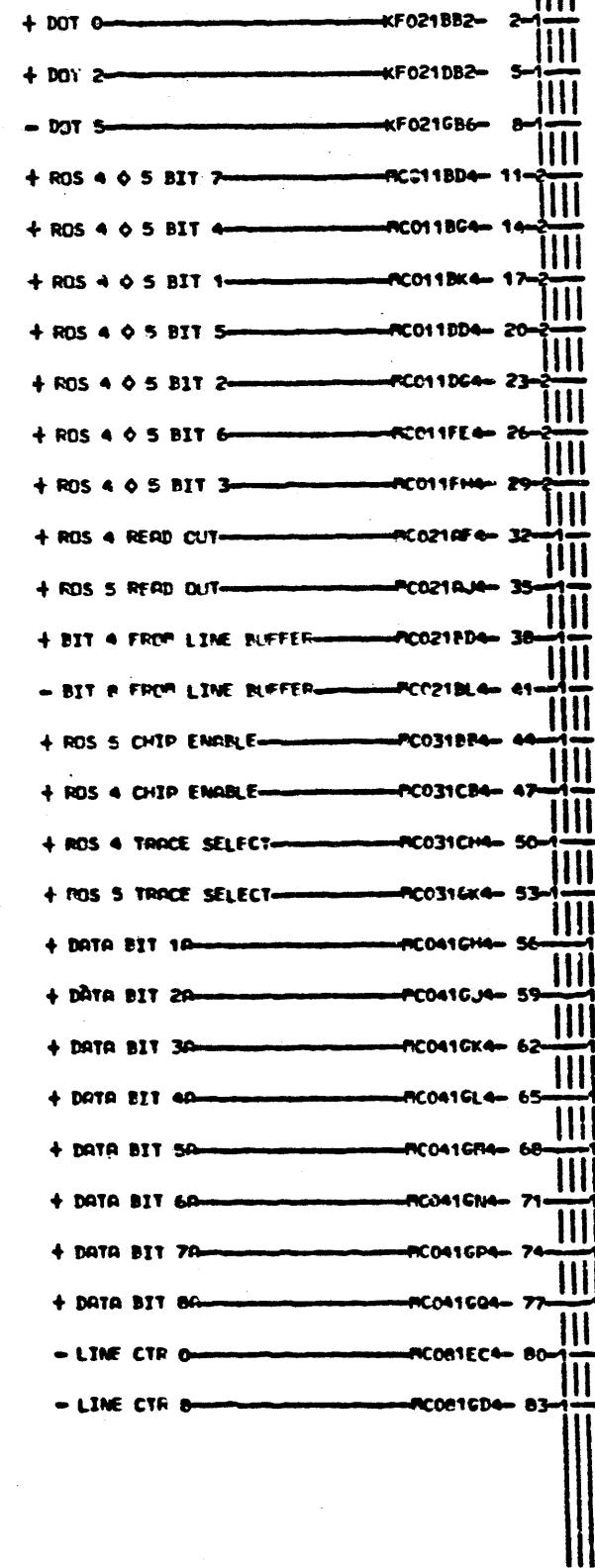
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600

LNC. TYPE
A-91K2 9070

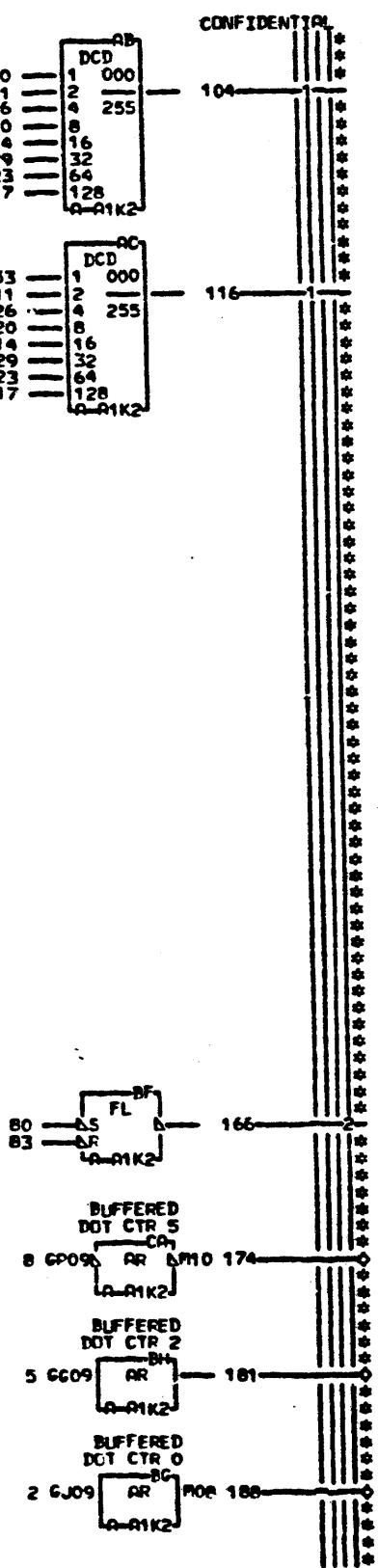
PAGE VER FC LEV
RC031 000 717492
RC041 000 717946

LINE BUFFER + CHAR. GEN.	
—E.C.—HISTORY—	
717473	RACH.3277
717492	FRAME 01
DATE LAST EC	
08-05-72 717946	
IBA CORP. KN	
P.o.N. 1823811	



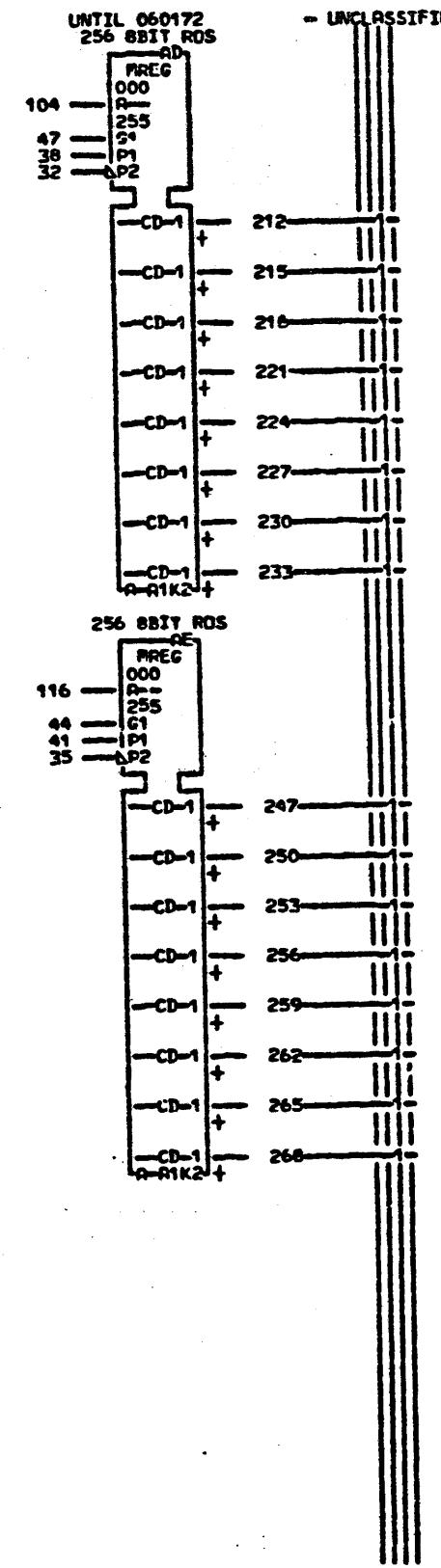
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CONF 1

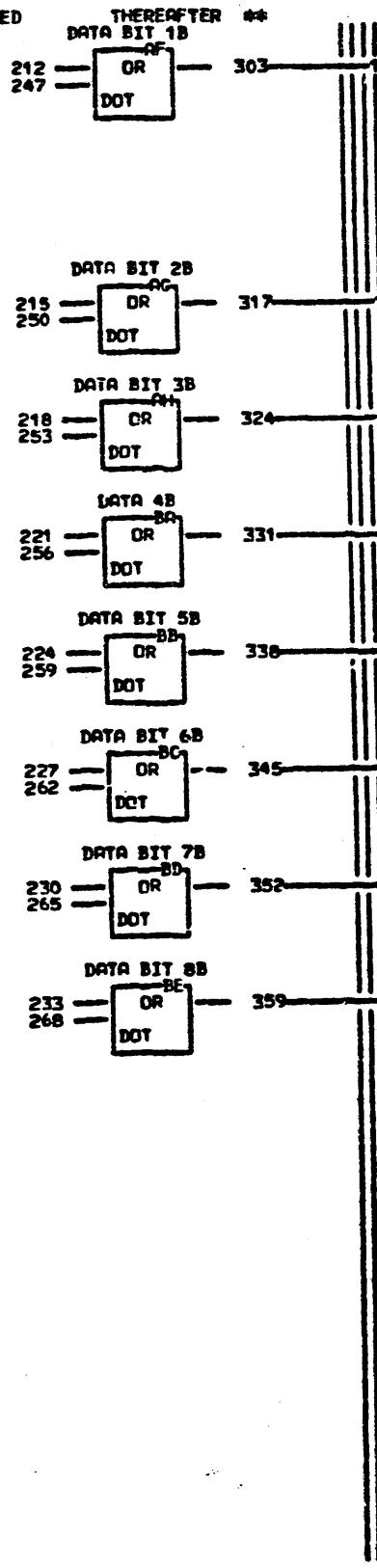


UNTIL 060172
256 8BIT ROS
AD,

- UNCLASSIFIED



THEREAFTER
DATA BIT 1B
AF



PACI VER EC LEV
1C051 005 718541
1C061 005 718541

003 RC061 RC061

188 + BUFFERED DOT CTR 0 — PC111-CJS

181 + BUFFERED DOT CTR 2 — FC021-CX4

174 - BUFFERED DOT CTR S — RC111-CL4

409 - DATA BIT 1 - PIC071-EP4

413 - START BIT 2 _____ P0071-EB4

417 - DATA BIT 3 FC071-EC4

421 - DATA BIT ← → 80071-ED4

425 - DATA BIT 5 PC071-EF4

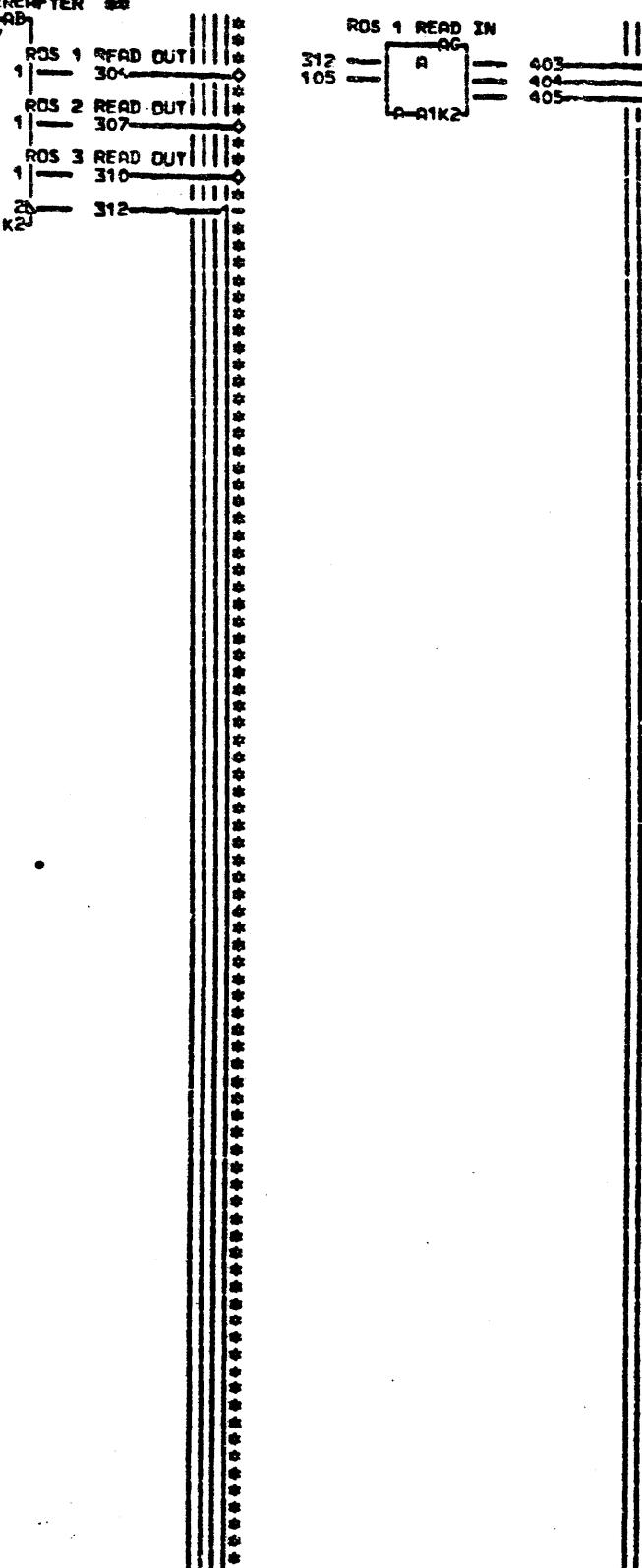
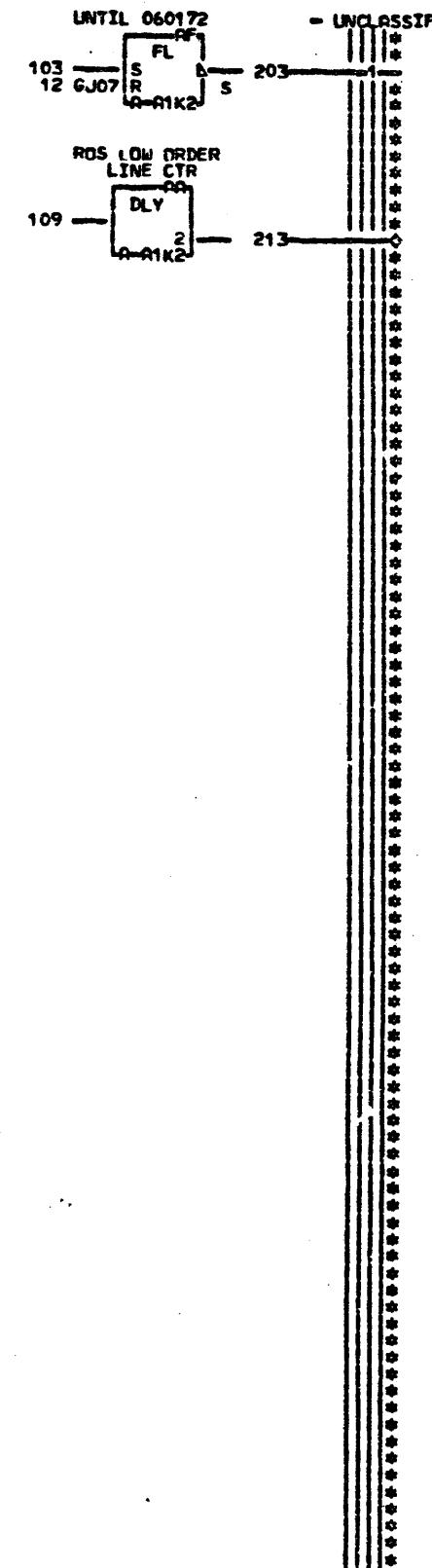
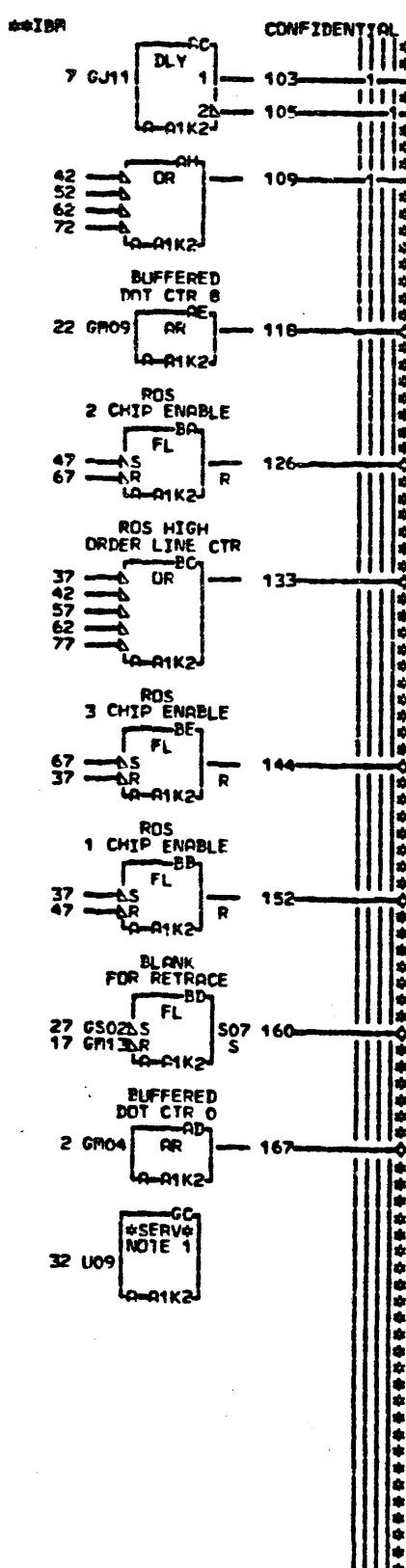
429 - DATA BIT 6 ————— F0071-EGA

033 - DATA BIT 7 R0071-EHA

637 - DATA BIT 0 PC071-EJA

420 + 1920 CHAR. GEN. KATAKANA DR EXTENDED CHAR SET	
E.C. HISTORY B. PARCH. 3277	
717473	FRAME 01
717492	IBI CORP. SDD
717946	P.No. 1823818
DATF LST EC 10-02-72 718541	

+ DOT 0 KF021BB2- 2-
 + DOT 2 KF021DB2- 7-1
 + DOT 6 KF021EE2- 12-1
 - CLR BLANK FOR RETRACE KF021EK4- 17-1
 + DOT 8 KF021GF2- 22-1
 - SET BLANK FOR RETRACE KF181RL4- 27-1
 + FIRST 9 LINES KF181GH2- 32-1
 - LINE CTR 0 PC091EC4- 3-3
 - LINE CTR 1 PC091ED4- 42-2
 - LINE CTR 2 PC091EE4- 47-2
 - LINE CTR 3 PC091EF4- 52-2
 - LINE CTR 4 PC091EG4- 57-2
 - LINE CTR 5 PC091GA4- 62-2
 - LINE CTR 6 PC091GB4- 67-2
 - LINE CTR 7 PC091GC4- 72-2
 - LINE CTR 8 PC091GD4- 77-2



000 PC051 000 PC051 PC064
 167 + BUFFERED DOT CTR 0 PC021-604
 118 + BUFFERED DOT CTR 0 PC021-604
 304 + ROS 1 READ OUT PC071-DC4
 307 + ROS 2 READ OUT PC071-DF4
 310 + ROS 3 READ OUT PC071-DJ4
 403 + ROS 1 READ IN PC071-FC4
 404 + ROS 2 READ IN PC071-FH4
 405 + ROS 3 READ IN PC071-FJ4
 000 PC061 000
 126 + ROS 2 CHIP ENABLE PC071-ED4
 152 + ROS 1 CHIP ENABLE PC071-CC4
 160 + BLANK FOR RETRACE PC091-DB4
 144 + ROS 3 CHIP ENABLE PC071-ER4
 133 + ROS HIGH ORDER LINE CTR PC071-FB4
 213 + ROS LOW ORDER LINE CTR PC071-FB4

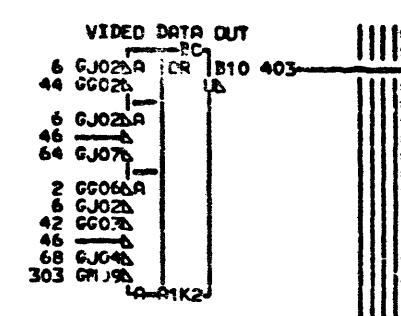
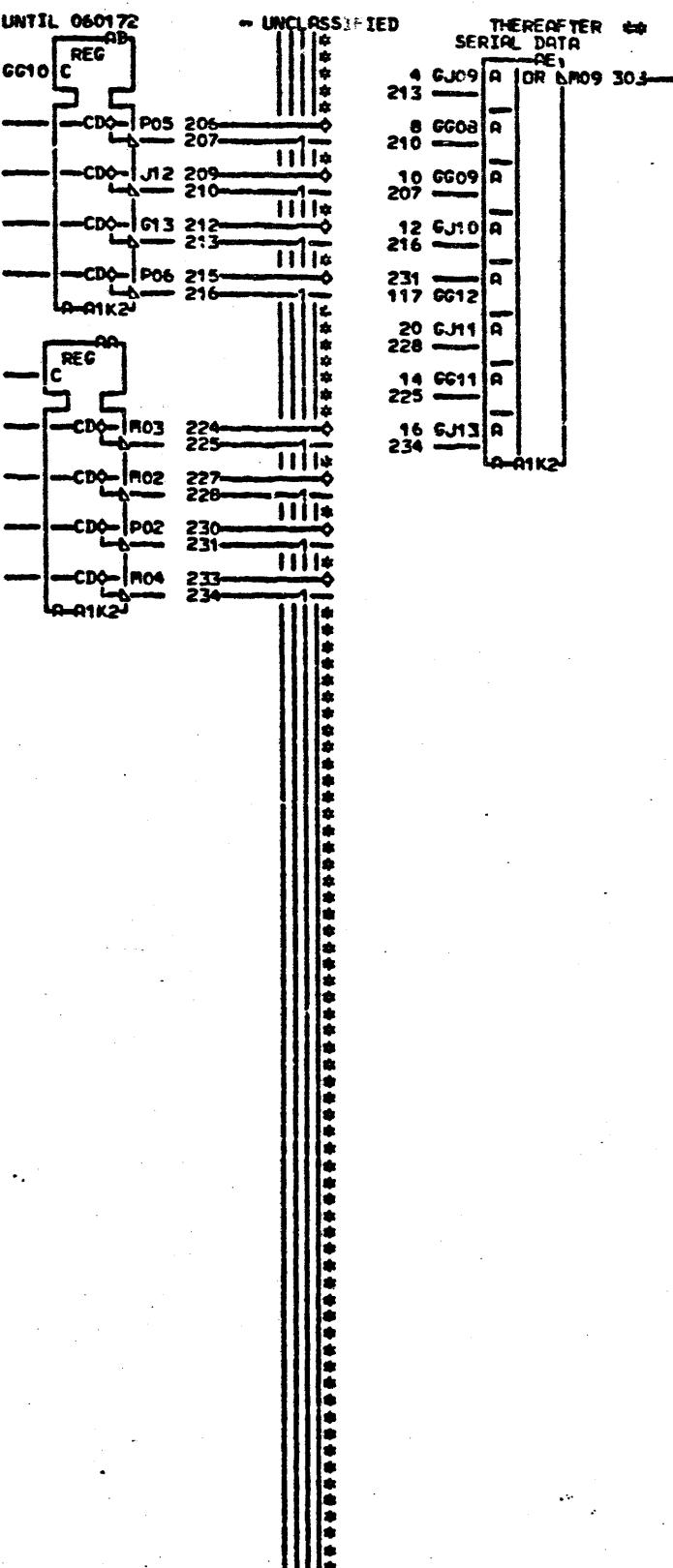
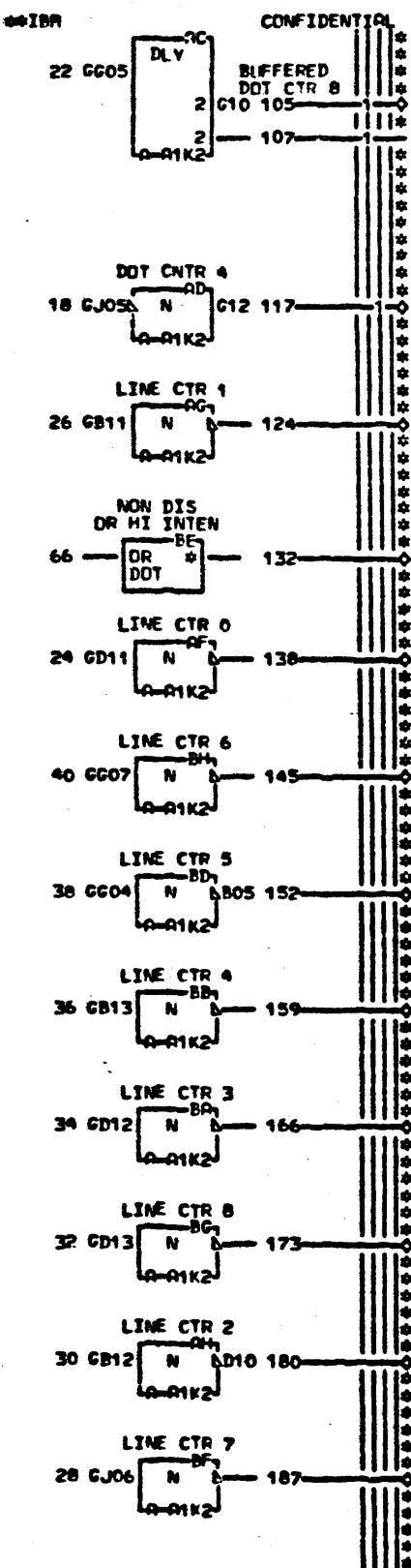
A. NOTE SEE REFERENCE PAGE
 27101 FOR CHARACTER GENERATOR
 CARDS
 B. NOTE ? SEE REFERENCE PAGE
 27101 FOR CHARACTER GENERATOR
 CARDS
 PC-1
 PC061
 000

LOC. TYPE
A-A1K2 9070

PAGE VER EC LEV
PC051 000 717492
PC061 000 717492

LINE BUFFER + CHAR. GEN.	EC HISTORY	PC051
PC051	717473	PC051
PC061	PC061	PC061
DATE LRST EC 06-01-72 717492	FRAME 01	PC051
IBR CORP. KN P.O. N. 1823816	PC061	PC061

0018A
+ STEP DOT CTR 1 KF011CP4- 2
+ DOT 0 KF021BB2- 4
+ BLANK FOR FIRST FRAME KF021BL4- 6
+ DOT 1 KF021CB2- 8
+ DCT 2 KF021DB2- 10
+ DOT 3 KF021EB2- 12
+ DOT 6 KF021EE2- 14
+ DOT 7 KF021EF2- 16
- DOT 4 KF021FB2- 18
+ DOT 5 KF021GB2- 20
+ DOT 8 KF021GF2- 22
+ LINE 0 KF121RE4- 24
+ LINE 1 KF121B2- 26
+ LINE 7 KF121BH2- 28
+ LINE 2 KF121CR2- 30
+ LINE 8 KF121CH2- 32
+ LINE 3 KF121DR2- 34
+ LINE 4 KF121FR2- 36
+ LINE 5 KF121FA2- 38
+ LINE 6 KF121GA2- 40
+ BLANK CRT AT VIDEO OUTPUT KF141CP4- 42
- UNBLANK IND KF161RE4- 44
+ RTF BLNK OR NOT 1ST 9 LNS PC031CP4- 46
- DATA BIT 1 PC061EP4- 48
- DATA BIT 2 PC061EP4- 50
- DATA BIT 3 PC061EC4- 52
- DATA BIT 4 PC061ED4- 54
- DATA BIT 5 PC061EF4- 56
- DATA BIT 6 PC061EG4- 58
- DATA BIT 7 PC061EH4- 60
- DATA BIT 8 PC061EJ4- 62
- CURSOR OR FORCE UNBLANK PC111CP4- 64
+ NON DIS OR HI INTEN PC111CP4- 66
+ CSR LN FRM LB PC131AP4- 68



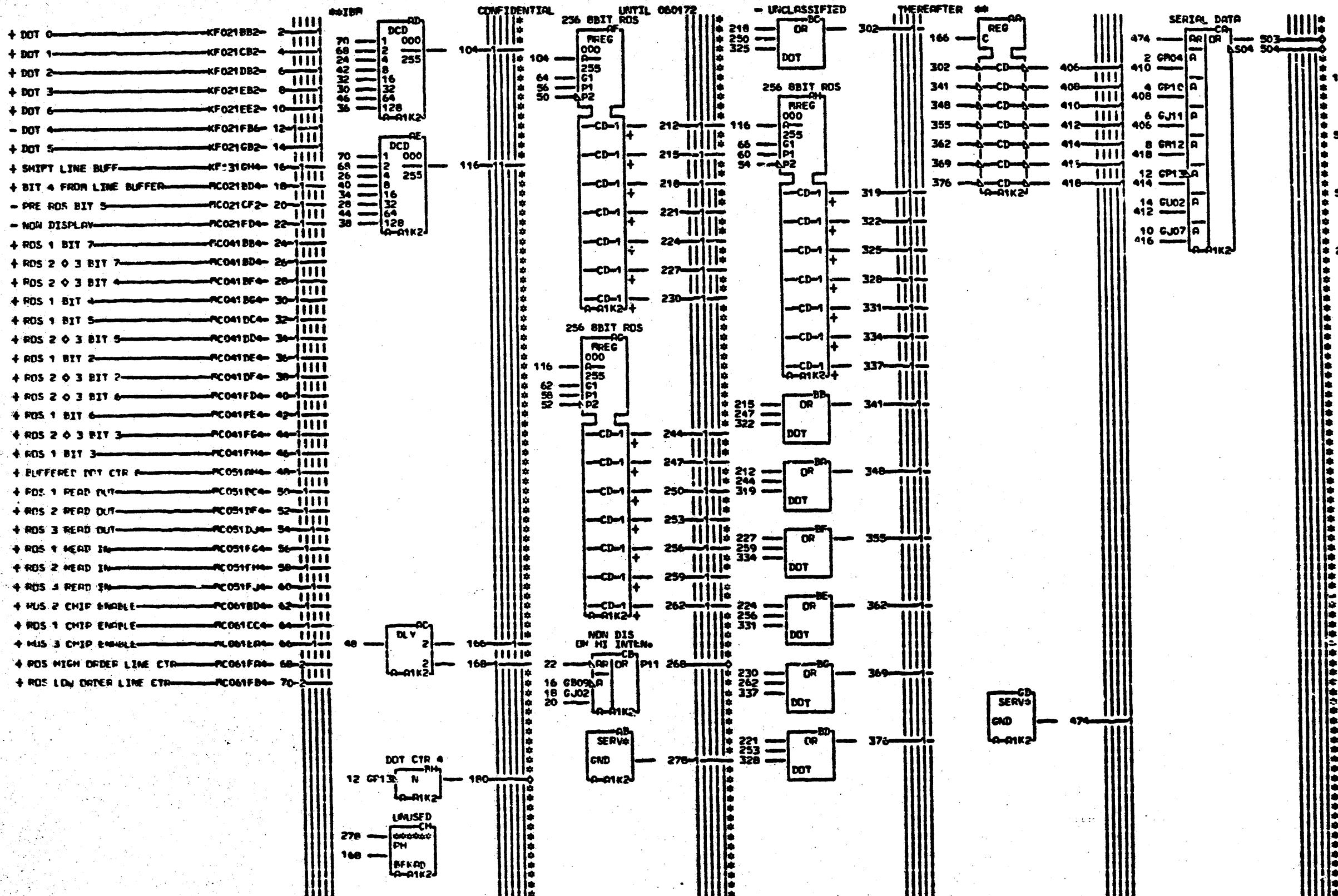
005 PC071 005 PC071 PC081
105 + BUFFERED DOT CTR 8 PC111-304
212 016 + TEST BIT 1 042
209 017 + TEST BIT 2 042
206 018 + TEST BIT 3 042
215 019 + TEST BIT 4 042
230 020 + TEST BIT 5 042
227 021 + TEST BIT 6 042
224 022 + TEST BIT 7 042
233 023 + TEST BIT 8 042
117 + DOT CTR 4 PC111-044
005 PC081 005
138 - LINE CTR 0 4PC031 4PC061 ED4
124 - LINE CTR 1 PC031-ED4
180 - LINE CTR 2 4PC031 4PC131 ED4
166 - LINE CTR 3 PC031-ED4
159 - LINE CTR 4 PC031-ED4
403 + VIDEO DATA OUT PC081-PR4
152 - LINE CTR 5 PC031-ED4
132 + NON DIS OR HI INTEN KF061-GB4
167 - LINE CTR 7 PC031-ED4
173 - LINE CTR 8 4PC031 4PC061 ED4
145 - LINE CTR 6 4PC031 4PC061 ED4

A-NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.
SIM TO PN 156378A EC 717492
PC071 B-1 JTF SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.
PC081 SIM TO PN 1563789 EC 717946
005

LOC. TYPE
A-A1K2 9123

PAGE 005 VER 005 EC 1EV
PC071 717492
PC081 717946

80 + 1920 CHAR. GEN. KATAKANA OR EXTENDED CHAR SET E.C. HISTORY - B. RACH 3277	FRAME 01	PC071
717473		
716959		
717452		
717946		
DATE 10-02-72 LAST EC 718541		
P.O. 1823823		PC081



A. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER GENERATOR
CATS
B. NOTE SEE REFERENCE PAGE

NOTE SEE REFERENCE PAGE
22101 F76 CHARACTER GENERATOR
CARDS

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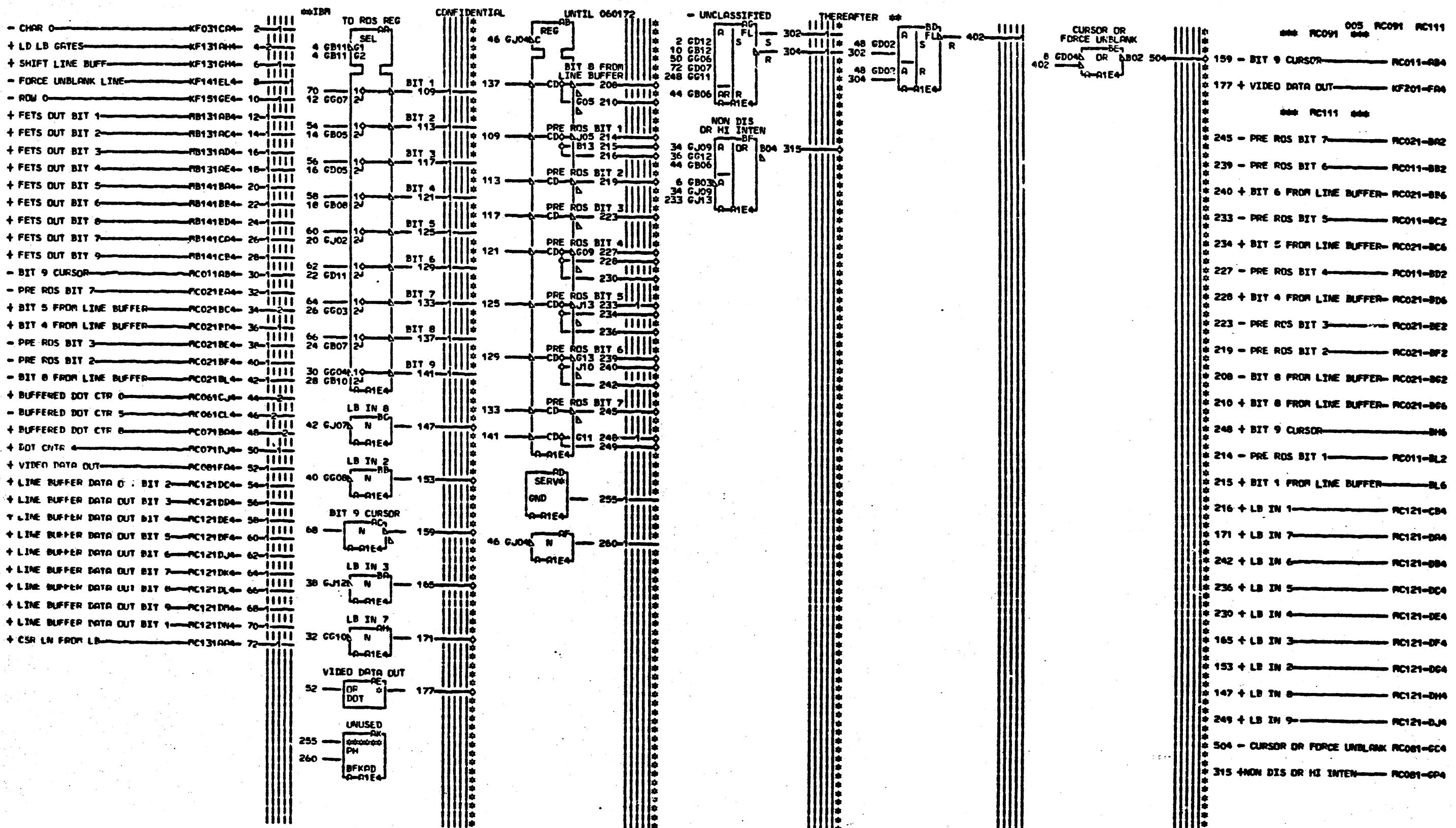
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660

LOC. 742
A-9142 907

PAGE VER EC LEV
PC071 000 717492
PC081 000 717946

LINE BUFFER + CHAR. GEN.	
E.C. HISTORY	
717473	PARCh. 3277
717492	FRAME 01
DATE 08-05-72	LAST EC 717946
IBA CORP./PN	
P.No. 1823821	



A-NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.

PC091 B. NOTE SEE REFERENCE PAGE
PC111 SIM TO PN 154-3790 EC 717946
GENERATOR CARDS.
22101 FOR CHARACTER
GENERATOR CARDS.

FC111 GENERATOR CARD.

035

1

LOC. TYPE
A-91E4 2227

PAGE VFR EC LEV
PC091 005 717946
PC111 005 717946

920 LINE BUFFER	
XTENDED CHAR SETS	
E.C.-HISTORY	
17473	RACH-3277
17495	FRAME 01
17492	IBA CORP.500
DATE LAST EC	
16-05-72 717946	
P.O. 1823028	
005	

441BR

+ STEP DOT CTR 1 → KF011GA4- 2-1

+ BLANK FOR FIRST FRAME → KF021BL4- 7-3

+ LINE 0 → KF121RE4- 12-

+ LINE 1 → KF121BR2- 17-

+ LINE 2 → KF121BH2- 22-

+ LINE 3 → KF121CR2- 27-

+ LINE 4 → KF121CH2- 32-

+ LINE 5 → KF121DQ2- 37-

+ LINE 6 → KF121ER2- 42-

+ LINE 7 → KF121FQ2- 47-

+ LINE 8 → KF121GQ2- 52-

+ BLANK CTR AT VIDEO OUTPUT → KF141SP4- 57-

- UNBLANK IND → KF161BE4- 62-

+ CSR LINE → KF181FD4- 67-

- CURSOR OR FORCE UNBLANK → FC021GC4- 72-

+ BLANK FOR RETRACE → FC061DQ4- 77-2

+ SERIAL DATA → FC081FA4- 82-

CONFIDENTIAL

UNTIL 060172

- UNCLASSIFIED
LINE CTR 8
BB4

THEREAFTER 88

32 GU13 N 103
A-A1K2

LINE CTR 2
27 GS03 N 110
A-A1K2

LINE CTR 7
22 GS13 N 117
A-A1K2

LINE CTR 1
17 GU07 N 124
A-A1K2

LINE CTR 0
12 GU05 N 131
A-A1K2

VIDEO DATA OUT
AF
7 GU06A DR S09 138
62 GS06A U
7 GU06A
72 GS07A
2 GU06A
7 GU06B
57 GS05S
67 GM11B
77 GS07B
82 A-A1K2

LINE CTR 6
52 GU12 N 155
A-A1K2

LINE CTR 5
47 GS11 N 161
A-A1K2

LINE CTR 4
42 GU10 N 167
A-A1K2

LINE CTR 3
37 GS10 N 173
A-A1K2

000 FC091 FC091
131 - LINE CTR 0 → FC061-ED4

124 - LINE CTR 1 → FC061-ED4

110 - LINE CTR 2 → FC061-EE4

173 - LINE CTR 3 → FC061-EE4

167 - LINE CTR 4 → FC061-EE4

138 + VIDEO DATA OUT → KF201-FA4

161 - LINE CTR 5 → FC061-EE4

155 - LINE CTR 6 → FC061-EE4

117 - LINE CTR 7 → FC061-EE4

103 - LINE CTR 8 → FC061-EE4

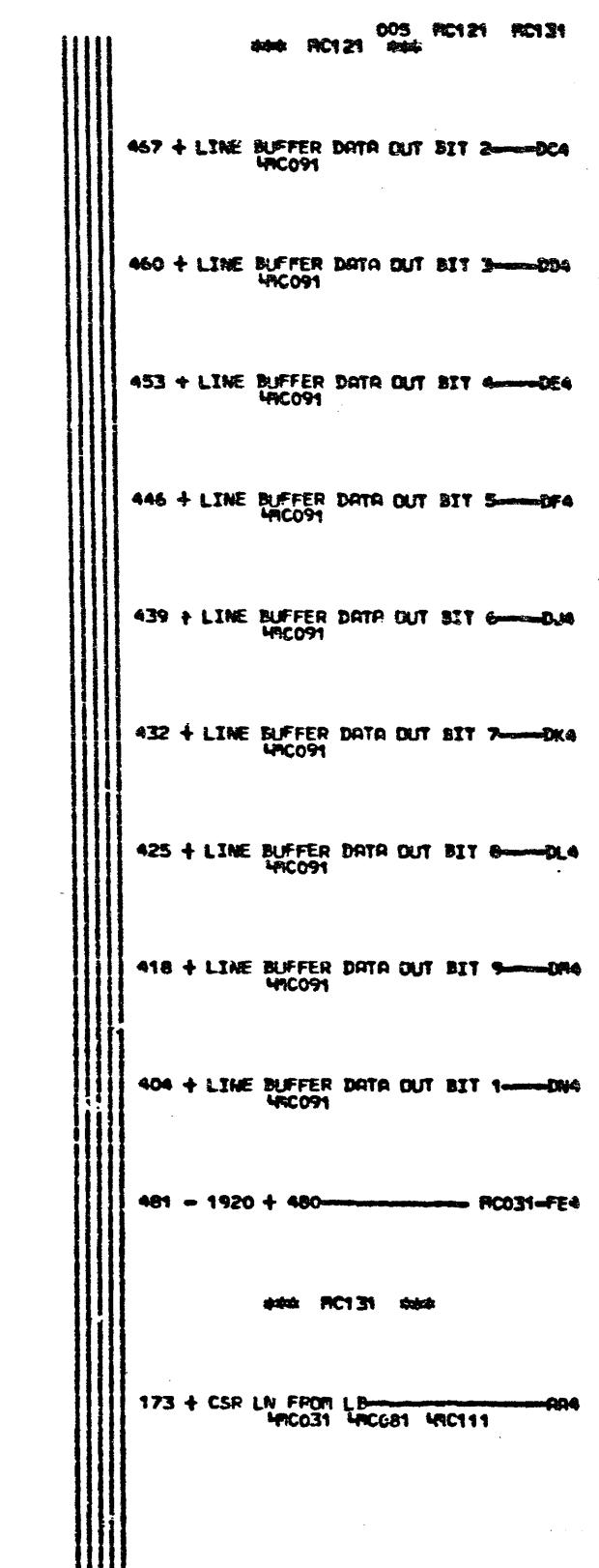
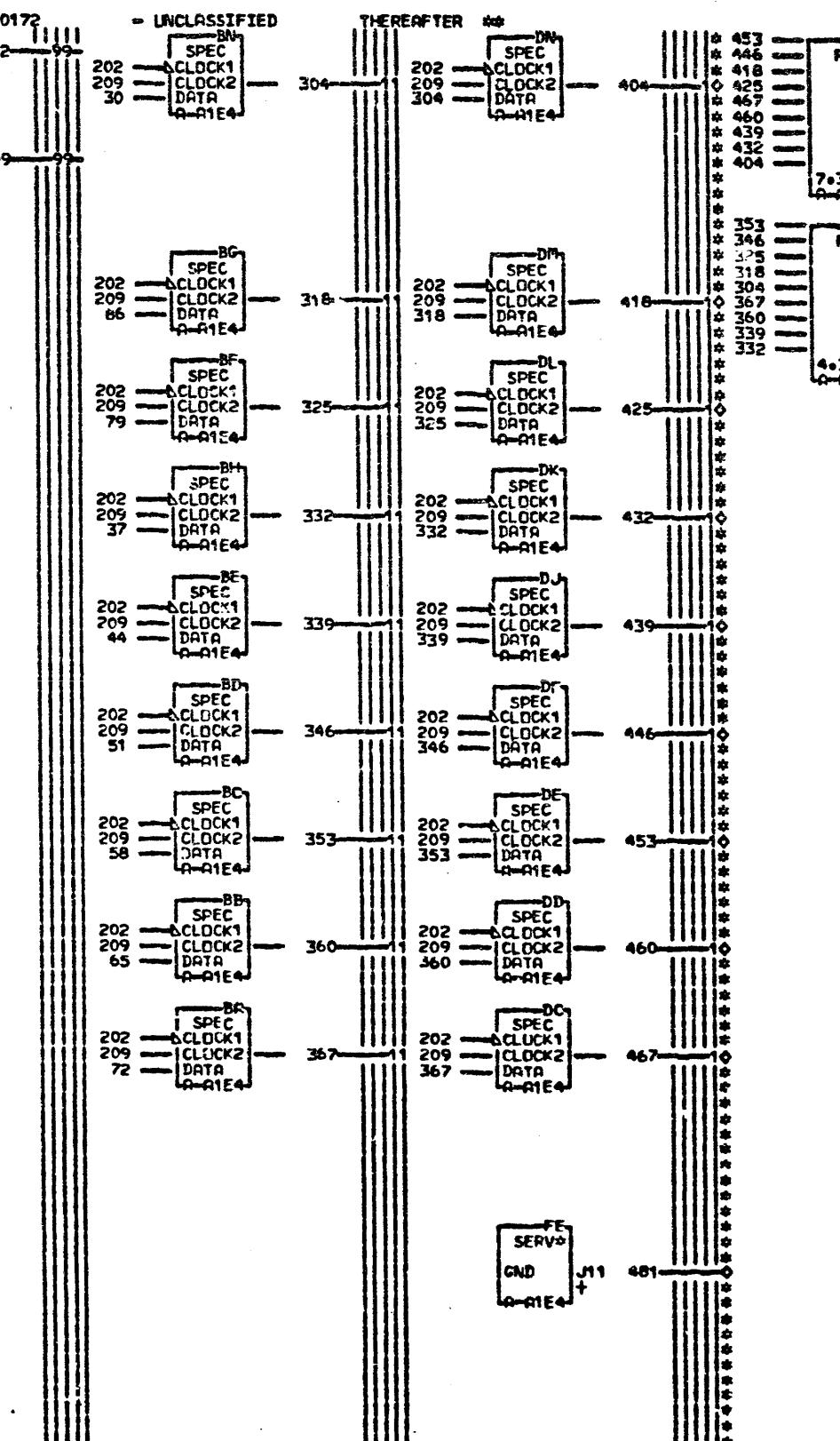
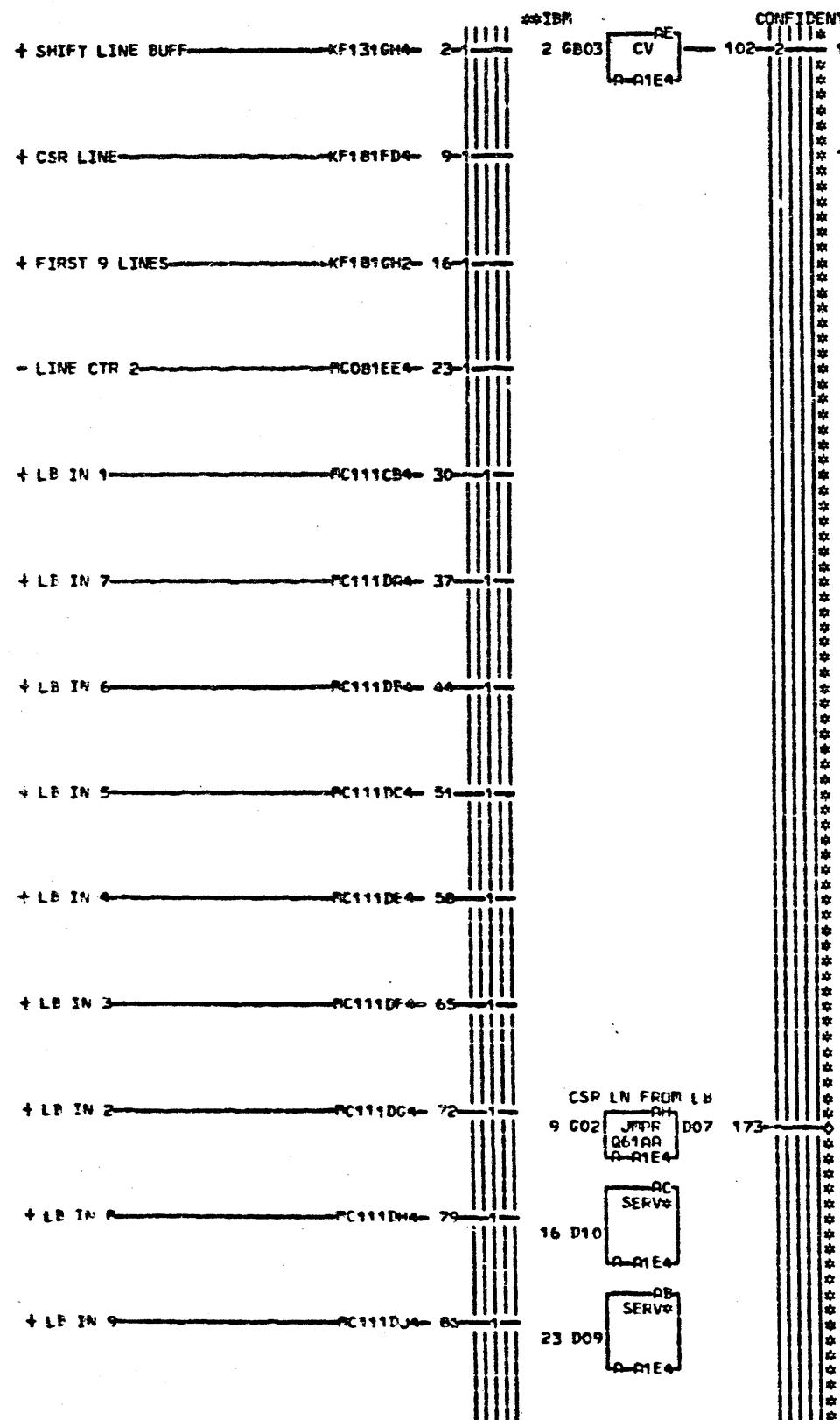
NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER GENERATOR
CARDS

LOC. TYPE
A-A1K2 9070

PAGE VER EC LEV
FC091 000 717946

FC091
FC091
000

LINE BUFFER + CHR. GEN.		DATE LAST EC	
E.C.-HISTORY	B-PROG-3277	08-05-72	717946
717473	717492	FRAME	01 FC091
		IBR CORP. N.Y.	P.O. 1823826 000



A-NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.
B-NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.

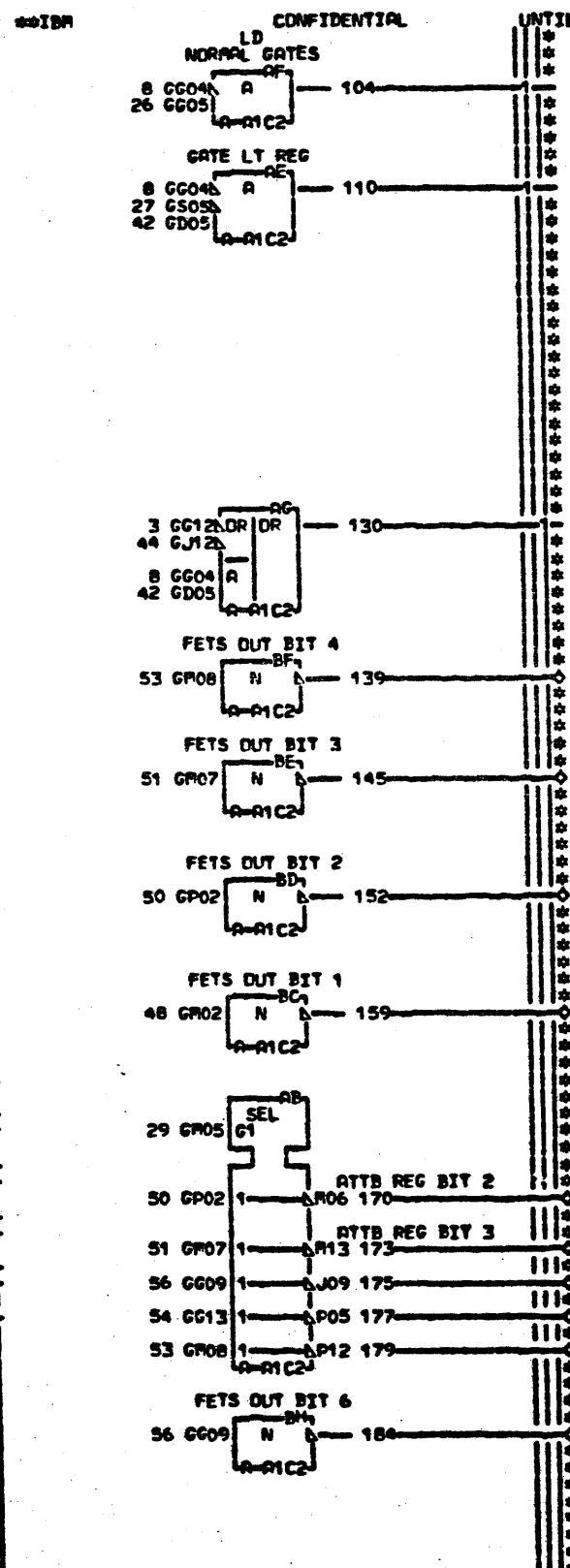
RC121
RC131
C

LOC. TYPE
A-A1E4 2227

PAGE VER EC LEV
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RC131 005 717492

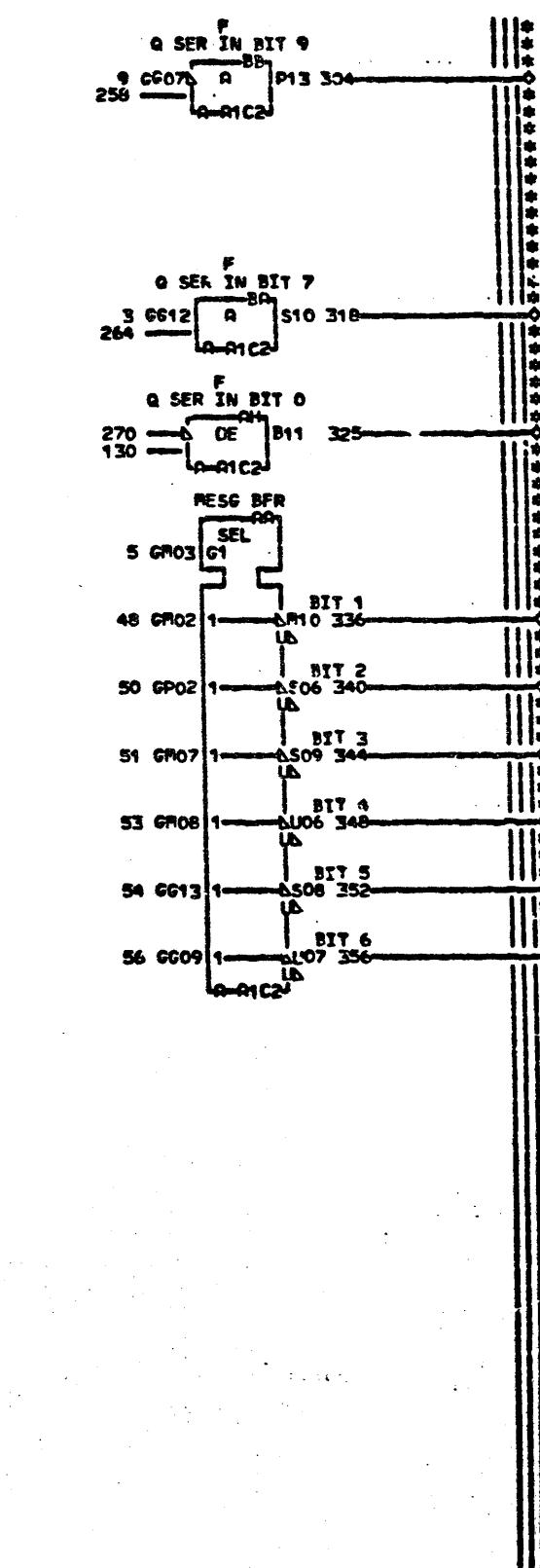
1920 LINE BUFFER EXTENDED CHAR SETS		PACH-3277
E-C-HISTORY	B	
717473		
716959		
717492		FRAME 01 RC121
DATE 08-05-72	LAST EC 717946	IBR CORP+SDD RC131
IP.N. 1823831	005	

001011
 + INPUT PARITY PREDICT KAO11GK4 2
 - DELETE PDT BIT 7 KAO31GH4 3
 + LOAD MESSAGE BUFFER KAO51FG4 5
 - LOAD I'D DATA KAO71AE4 6
 + INSERT NULL KAO81DB4 8-1
 - DELETE CSA BIT 9 KAO81DG4 9
 + INSERT CURSOR NORF KAO81EF4 11
 + SR BIT 6 KAO12BH2 12
 + SR BIT 11 KAO12CC2 14
 + SR BIT 5 KAO12CD2 15
 + SR BIT 10 KAO12DC2 17
 + SR BIT 4 KAO12DH2 18
 + SR BIT 9 KAO12EC2 20
 + SR BIT 3 KAO12EH2 21
 + SR BIT 8 KAO12FC2 23
 + SR BIT 7 KAO12GC2 24
 + NORMAL GATES KFO51FH4 26-7
 - LOAD LPTE REG KFO51FJ4 27-8
 + LD ATB REG FROM FETS KF131DE4 29-11
 + KB P BIT TO BUFF KFO21AR4 30
 + KEYBD BIT 2 KFO21BR4 32
 + KEYBD BIT 3 KFO21BS4 33
 + KEYBD BIT 1 KFO21BT4 35
 + KEYB BIT 7 KFO31BF4 36
 + KEYB BIT 5 KFO31BG4 38
 + KEYB BIT 6 KFO31BH4 39
 + KEYED BIT 0 KFO31BJ4 41
 - LD KB TO FETS KF111AR4 42-22
 - PDT LP BIT 7 KFO21BG4 44-12
 + FS KFO21BF2 45-27
 + FETS OUT BIT 0 KFO21AC4 47-11
 + FETS OUT BIT 1 KFO21AB4 48-11
 + FETS OUT BIT 2 KFO21AC4 50-21
 + FETS OUT BIT 3 KFO21AD4 51-21
 + FETS OUT BIT 4 KFO21AE4 53-21
 + FETS OUT BIT 5 KFO21AB4 54-21
 + FETS OUT BIT 6 KFO21BB4 56-21
 + FETS OUT BIT 7 KFO21BD4 57-21
 + FETS OUT BIT 8 KFO21CA4 59-11
 + FETS OUT BIT 9 KFO21CB4 60-11
 + FS KFO21DZ2 62-2
 + LATE REG BIT 0 KFO51EA2 63-11
 + LATE REG BIT 1 KFO51EB2 64-11
 + LATE REG BIT 2 KFO51EC2 66-11
 + LATE REG BIT 3 KFO51ED2 68-11
 + LATE REG BIT 4 KFO61CA2 69-11
 + LATE REG BIT 5 KFO61CR2 71-11
 + LATE REG BIT 6 KFO61CD2 72-11
 + LATE REG BIT 7 KFO61CE2 74-11
 + LATE REG BIT 8 KFO61CF2 75-11
 + LATE REG BIT 9 KFO61CH2 77-11



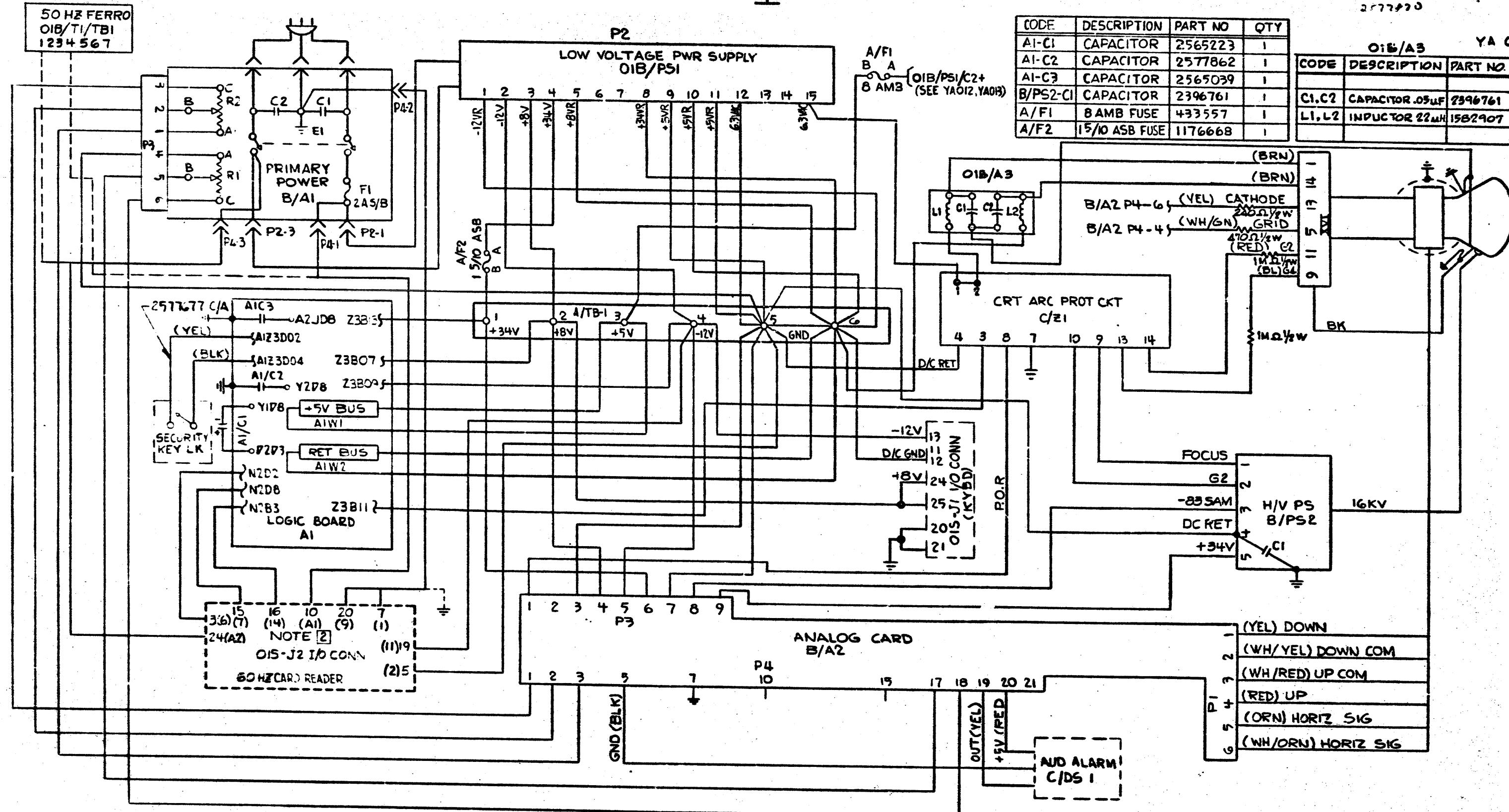
LDC TYPE
 A-R1C2 2066

PAGE VER EC LEV
 PG011 001 717492
 PG021 001 717492
 PG031 000 717492



001011 001 717492
 218 + F Q SER IN BIT 1 PG011-ED4
 225 + F Q SER IN BIT 2 PG011-EG4
 232 + F Q SER IN BIT 3 PG011-EJ4
 239 + F Q SER IN BIT 4 PG011-EL4
 325 + F Q SER IN BIT 0 PG011-EC4
 440 PG021 000
 211 + F Q SER IN BIT 5 PG021-FB4
 246 + F Q SER IN BIT 6 PG021-FD4
 253 + F Q SER IN BIT 7 4K121 4R021 FJ4
 318 + F Q SER IN BIT 8 4K121 4R021
 304 + F Q SER IN BIT 9 PG021-GL4
 440 PG031 000
 150 - FETS OUT BIT 1 4R041 4R051
 152 - FETS OUT BIT 2 4R041 4R051
 145 - FETS OUT BIT 3 4R041 4R051
 139 - FETS OUT BIT 4 4R041 4R061
 278 - FETS OUT BIT 5 4R041 4R061
 184 - FETS OUT BIT 6 4R041 4R061
 336 - MSG BFR BIT 1 KA11-BB4
 340 - MSG BFR BIT 2 KA11-BB4
 344 - MSG BFR BIT 3 KA11-BC4
 348 - MSG BFR BIT 4 KA11-BD4
 352 - MSG BFR BIT 5 KA11-BE4
 356 - MSG BFR BIT 6 KA11-BF4
 170 - RTTB REG BIT 2 KF071-CB4
 173 - RTTB REG BIT 3 KF071-CB4
 179 - RTTB REG BIT 4 CDA4
 177 - RTTB REG BIT 5 CE4
 175 - RTTB REG BIT 6 CF4

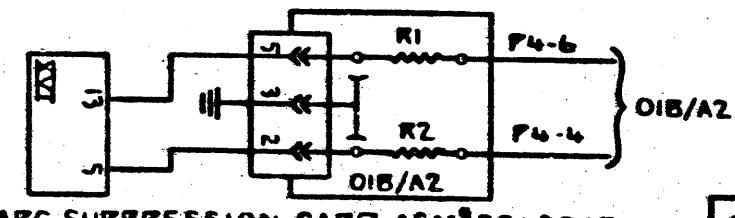
I/O GATING AND PARITY
 -E.C-HISTORY- 0-PACN-3277
 717473
 PHONE 01 PG011
 IBM CORP. 001 PG031
 DATE LAST EC 06-01-72 717492
 IPN. 1823835 001



NOTES:

- 1 WHEN KEYB'D FEAT IS NOT ATTACHED TO DISPLAY LOAD RESIS 7577676 REF MOUNTS TO B/TBI-2 & 6; AND 2577679 REF MOUNTS TO B/TBI-3 & 6
- 2 THE 50 HZ CARD READER RECEIVES IT'S POWER FROM FERRO OIB/TI/TBI-1 & 4 NOT THRU PRIME POWER OIB/A/P4 CONN POS 1 & 9 TIE DIRECTLY TO FR GAD OR GUSSET. NUMBERS IN PARENTHESIS REPRESENT THE 50 HZ CONNECTOR POSITIONS

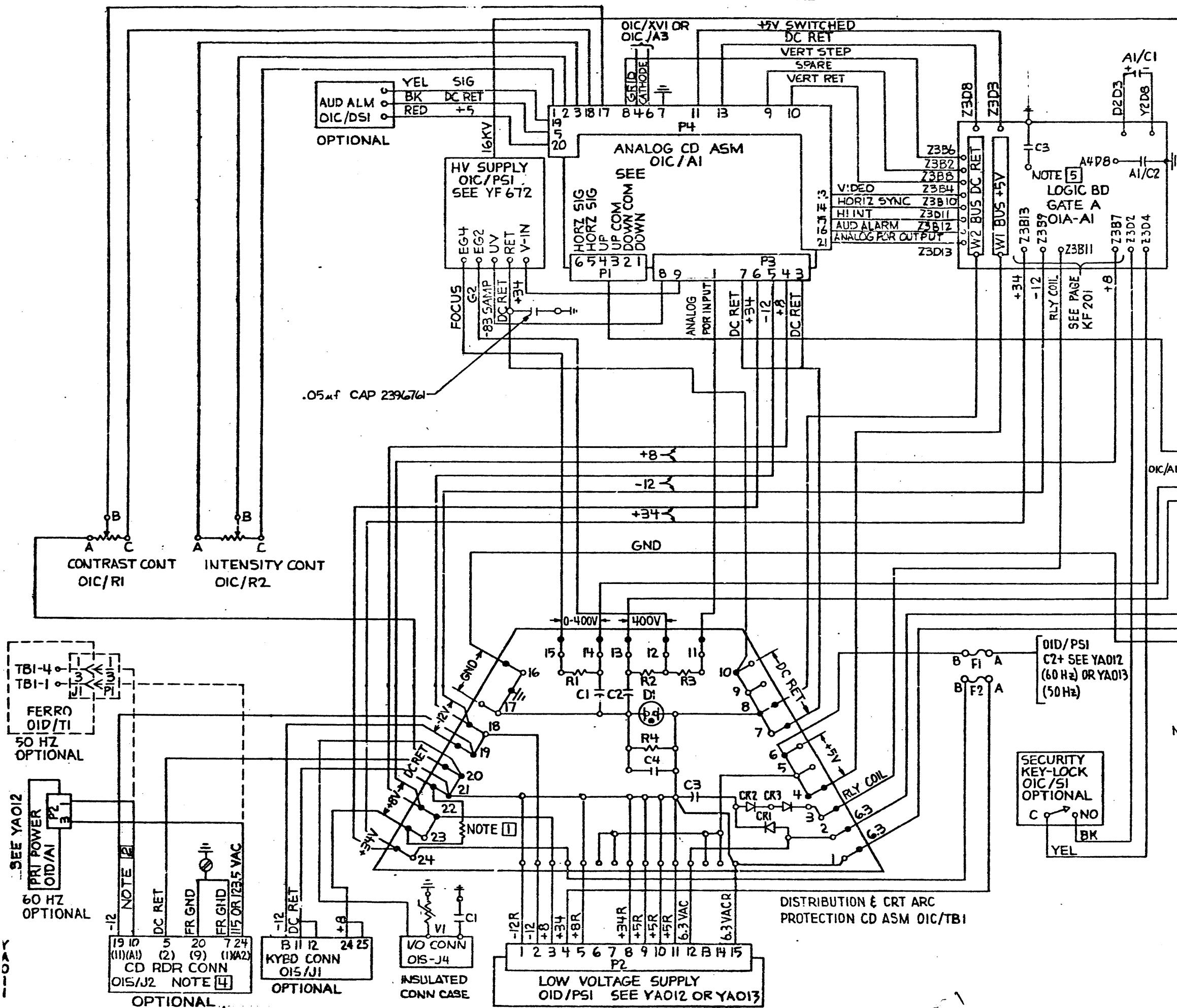
3 ARC SUPPRESSION CARD ASM
IS ONLY USED ON UNITS WITH
2565236 ANALOG CARD ASM.



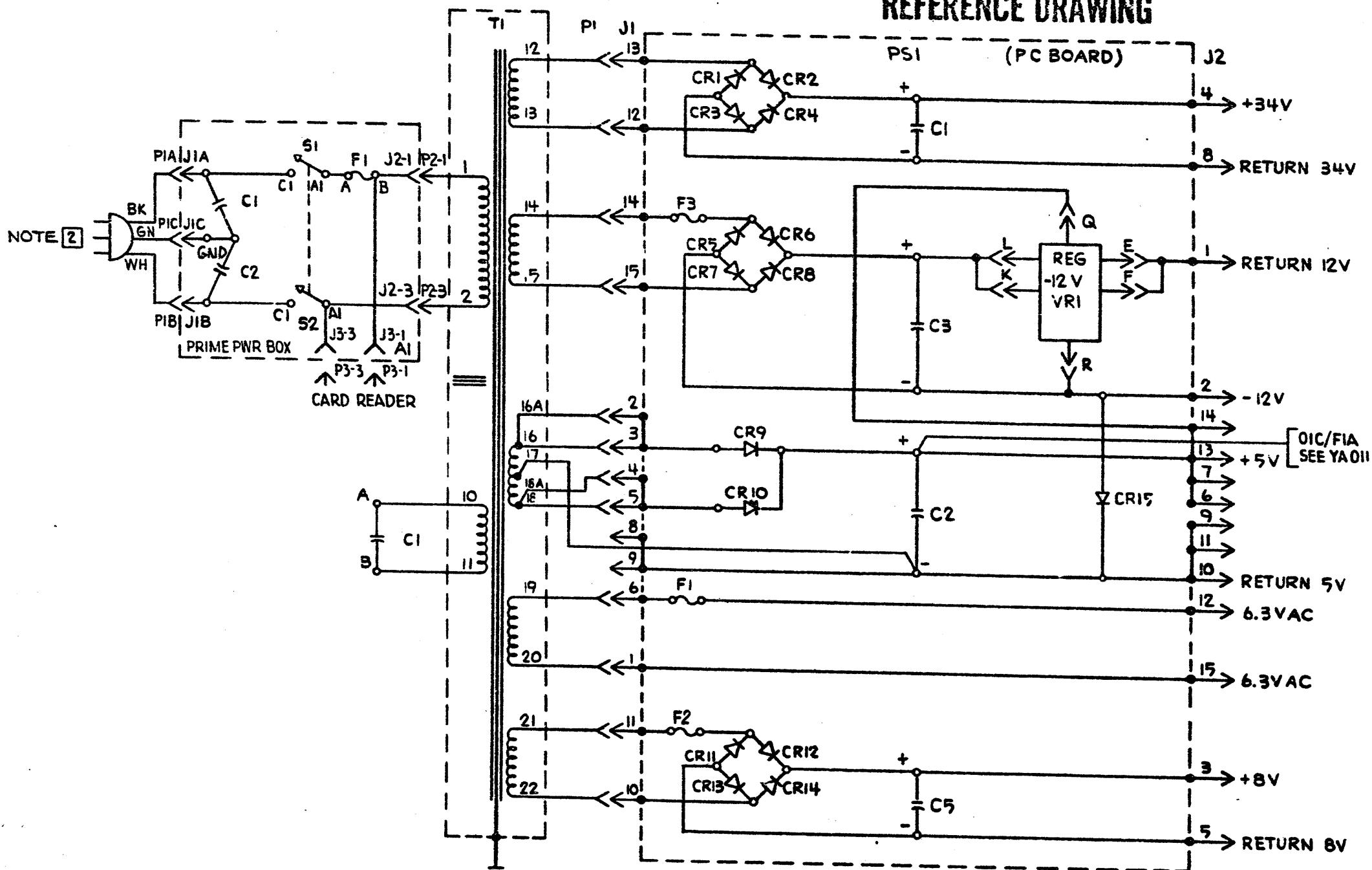
ARC SUPPRESSION NOTE [3] CARD ASM*2568807

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INCHARGED DEPARTMENT.

SEE EC HISTORY		DRAWING TITLE
2	JG73	733401
	MAR74	739992
D	3FEB75	741722
	MAY75	741690
		PART NO 2577870
		CLASSIFICATION
		IBM CORP



REFERENCE DRAWING



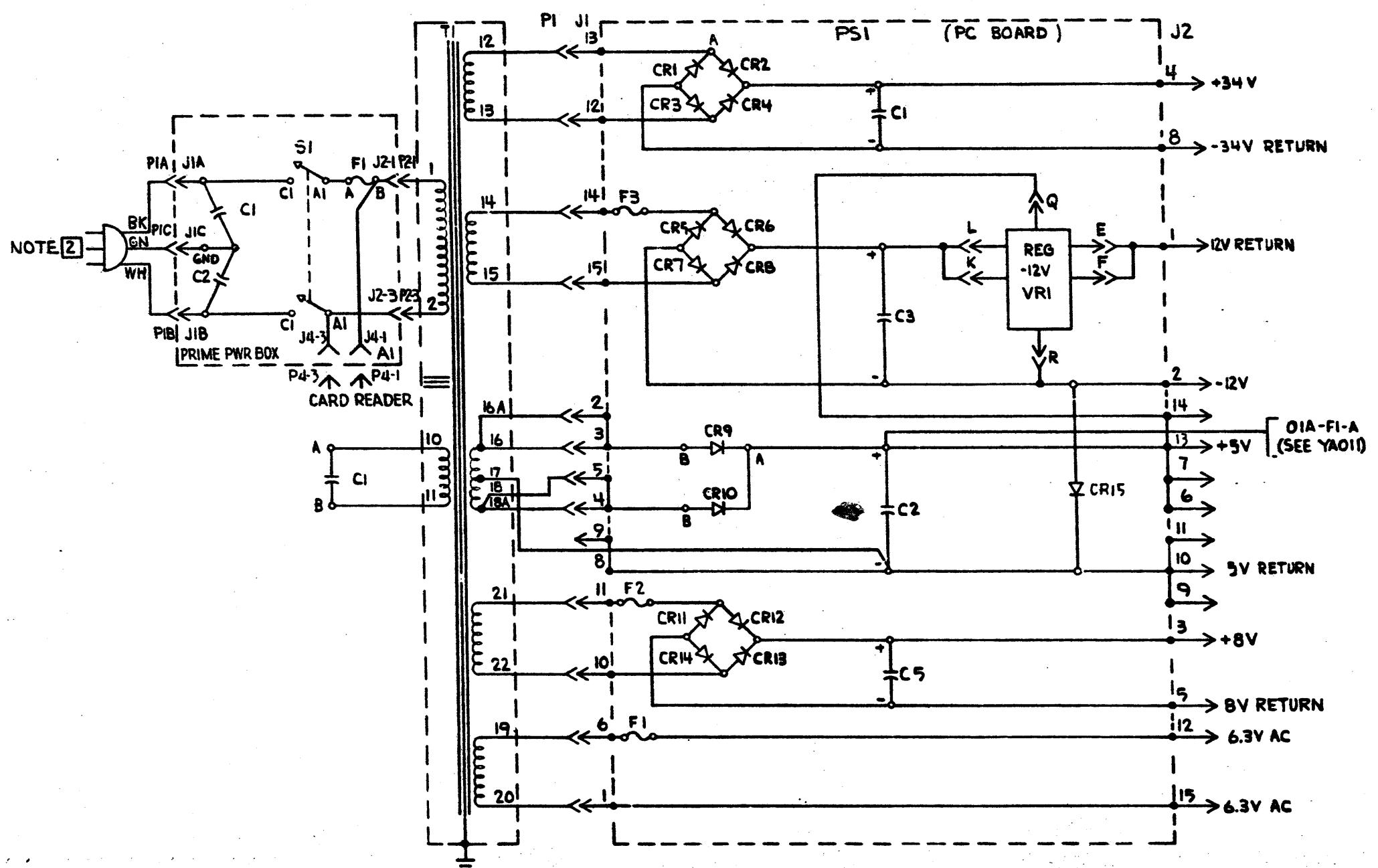
CODE	DESCRIPTION	PART NO
PS1	PRINTED CIRCUIT BOARD ASM	2481185
VRI	REGULATOR CARD-12V	2481207
PSIC1	CAPACITOR, 7.2K μ F 40V	5712125
PSIC2	CAPACITOR, 240K μ F 75V	5252526
PSIC3	CAPACITOR, 3.1K μ F 25V	483107
PSIC5	CAPACITOR, 60K μ F 10V	5252514
AIC1/AIC2	CAPACITOR FILTER .01 μ F	737805
C1	CAPACITOR, 4 μ F 660VAC	2582939
CR1-CR8 CR15	DIODE, 1AMP 180V	5214324
CR9-CR10	DIODE, 10AMP 150V	598479
CR11-CR14	DIODE, 3AMP 100V	149212
AIFI,PSIFI	FUSE, 2AMP SB 125 V	332009
PSIF2	FUSE, 5AMP SB 125 V	512137
PSIF3	FUSE, 2AMP SB 125 V	332009
S1, S2	SWITCH, 10AMP 125/250V	5252566
T1	FERRO, 60Hz	NOTE [2]

NOTES

- 1 ALL POWER UNITS IN 0ID/ZONE
- 2 THIS WIRING DIAGRAM PERTAINS TO 115VAC 10 60Hz UNITS (FERRO P/N 2582999), OR 100VAC 10 60Hz JAPAN UNITS (FERRO P/N 4119307).

EC HISTORY		DRAWING TITLE	
SEE EC HISTORY		CKT. DIAG. 19C DISPL. UNIT 60Hz	
16JUL73	739021	MACH	
3 FEB 75	741722	PART NO 2481235	
		CLASSIFICATION	
D		11/16/75 Rev Oct 74	IBM CORP

REFERENCE DRAWING



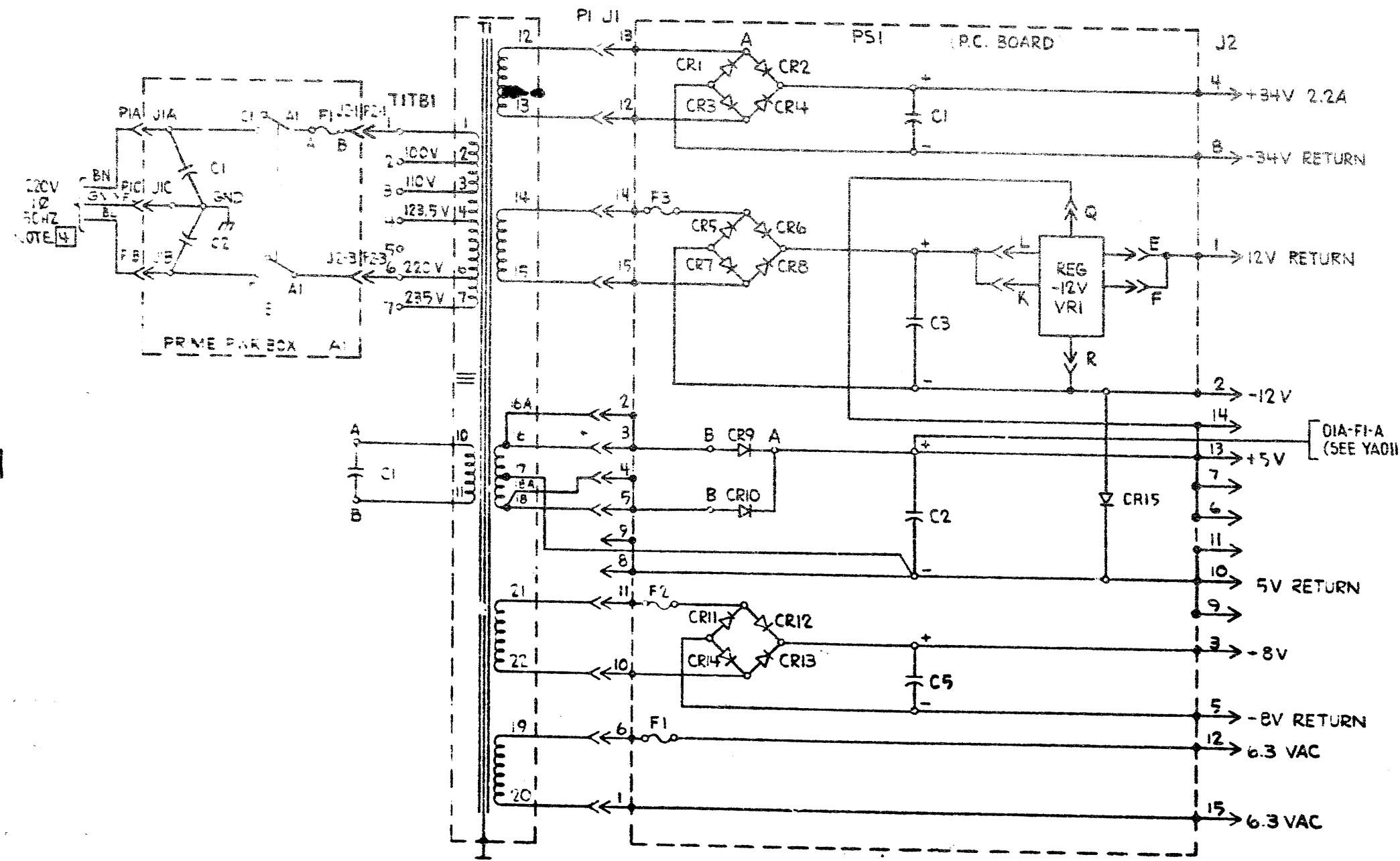
CODE	DESCRIPTION	PART NO
PSI	PRINTED CIRCUIT BOARD ASM	2461185
VRI	REGULATOR CARD -12V	2481207
PSIC1	CAPACITOR 7.2K μ F 40V	5712125
PSIC2	CAPACITOR 240K μ F 7.5V	5252526
PSIC3	CAPACITOR 3.1K μ F 25V	463107
PSIC5	CAPACITOR 60K μ F 10V	5252514
AI1C1&AI2	CAPACITOR, FILTER .01 μ F	737805
C1	CAPACITOR AC 4 μ F 660VAC	2562939
CR1-CR8, CR15	DIODE 1AMP 180V	5214324
CR9, CR10	DIODE 10AMP 150V	598479
CR11-CR14	DIODE 3AMP 100V	1149212
AI1, PS1F1	FUSE 2AMP SB 125V	332009
PS1F2	FUSE 5AMP SB 125V	52137
PS1F3	FUSE 2AMP SB 125V	332009
SI	SWITCH	5252626
TI	FERRO, 60HZ	NOTE [2]

NOTES

1 ALL POWER UNITS IN OID/ZONE
 2 THIS WIRING DIAGRAM PERTAINS TO 115VAC 1φ 60HZ UNITS (FERRO P/N 2582999),
 OR 100VAC 1φ 60HZ JAPAN UNITS (FERRO P/N 4119307).

EC HISTORY		DRAWING TITLE	
SEE EC	HISTORY	5Y5	DIAG 4BC DISPL UNIT 60HZ
16 JUL 73	739021	MACH	
3 FEB 75	741722	PART NO 2481234	
D		CLASSIFICATION	IBM corp
		10JL10/70 10/11 OCT 75	

REFERENCE DRAWING



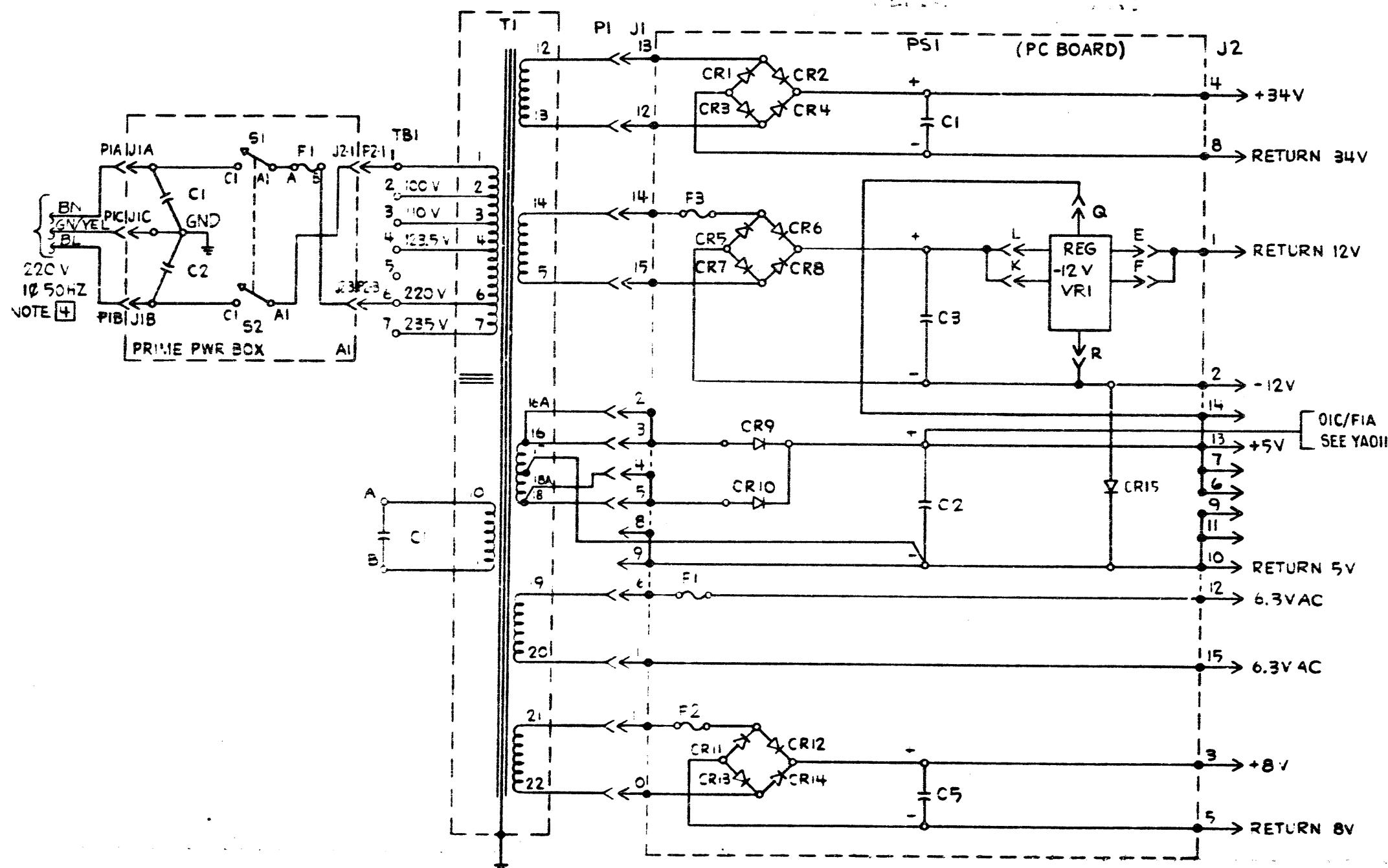
CODE	DESCRIPTION	PART NO
PSI	PRINTED CIRCUIT BOARD 15W	248-65
VRI	REGULATOR CARD -2V	2481207
PSIC1	CAPACITOR 7.2K μ F 40V	5712125
PSIC2	CAPACITOR 240K μ F 7.5V	5252526
PSIC3	CAPACITOR 3.1K μ F 25V	483107
PSIC5	CAPACITOR 60K μ F 10V	5252514
AIC1&AIC2	CAPACITOR FILTER .01 μ F	737805
C1	CAPACITOR 25 μ F 6.60VAC	2582939
CR1-CR8, CR15	DIODE 1AMP 180V	5214324
CR9&CR10	DIODE 1AMP 150V	598479
CR11-CR14	DIODE 3AMP 100V	149212
PSIFI	FUSE 2AMP SB125 V	332009
PSIF2	FUSE 5AMP SB125 V	512-37
PSIF3	FUSE 2AMP SB125 V	332009
AIFI	FUSE 1AMP SB250 V	NOTE 2
	FUSE 2AMP SB125 V	NOTE 3
SI	SWITCH	5252626
TI	FERRO, 50HZ	4119272

NOTES

- 1 ALL POWER UNITS IN OID/ZONE
- 2 FUSE 303549 IS REQUIRED WHEN THE UNIT IS WIRED FOR 220V OR 235V
- 3 FUSE 332009 IS REQUIRED WHEN THE UNIT IS WIRED FOR 240V, 110V OR 123.5V

- 4 THE INPUT COLOR CODING FOR 100 VAC 10 50HZ JAPAN UNITS IS BK, WH, GN/YEL

EC HISTORY		DRAWING TITLE	
10 OCT 71	716727	SYS DIAG 4FC DISPL UNIT 50HZ	
5 MAY 72	717675	MACH	
9 FEB 73	738312	PART NO 2481238	
16 JUL 73	739021	CLASSIFICATION	
3 FEB 75	741722	BAI 448 F04/15	IBM CORP



NOTES

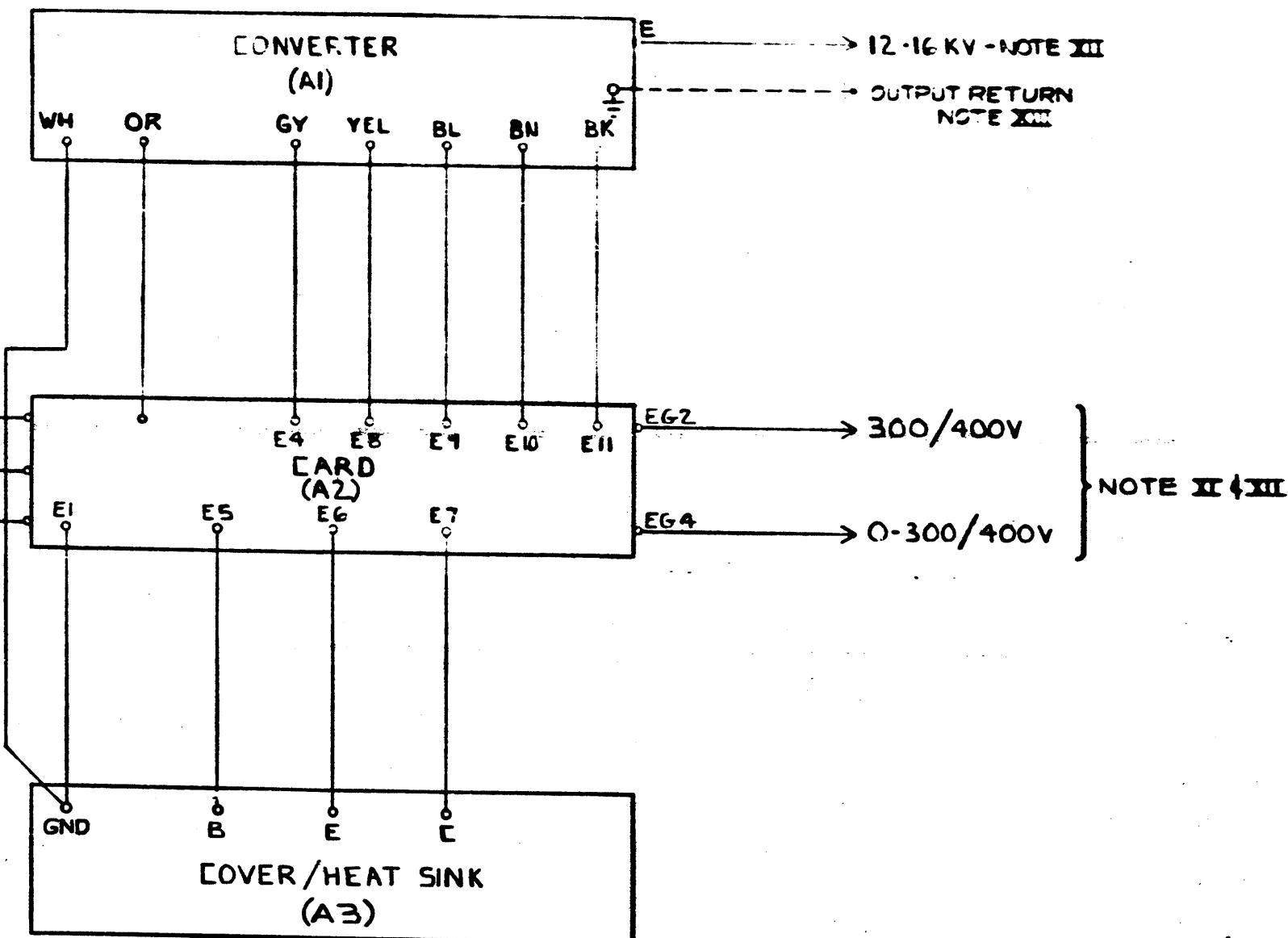
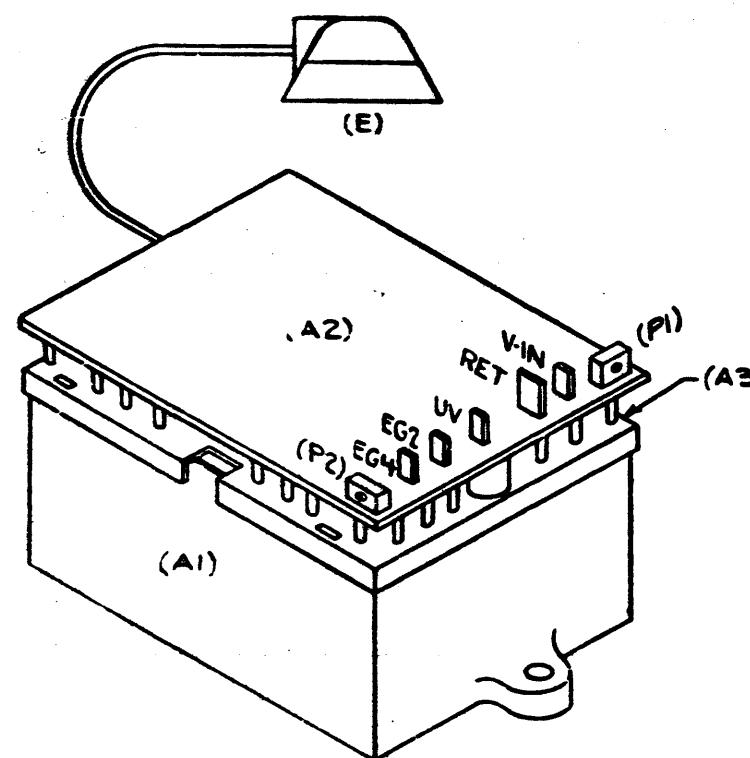
- 1 ALL POWER UNITS IN OID/ZONE
- 2 FUSE 303549 IS REQUIRED WHEN THE UNIT IS WIRED FOR 220V OR 235V
- 3 FUSE 332009 IS REQUIRED WHEN THE UNIT IS WIRED FOR 100V, 110V, OR 123.5V

4 THE INPUT CABLE COLOR CODING FOR 100VAC
10 50HZ JAPAN UNITS IS BK,WH,GN/YEL

CODE	DESCRIPTION	PART NO
PSI	PRINTED CIRCUIT BOARD ASM	2481185
VRI	REGULATOR CARD -12V	2481207
PSIC1	CAPACITOR,7.2K UF 40V	5712125
PSIC2	CAPACITOR,240K UF 7.5V	5252526
PSIC3	CAPACITOR,3.1K UF 25V	483107
PSIC5	CAPACITOR,60K UF 10V	5252514
AIC1&AIC2	CAPACITOR, FILTER .01UF	737805
C1	CAPACITOR, 4UF 660VAC	2582939
CR1-CR8,CP15	DIODE, 1AMP 180V	5214324
CR9&CR10	DIODE, 10AMP 150V	598479
CR11-CR14	DIODE, 3AMP 100V	149212
PSIF1	FUSE, 2AMP SB 125 V	332009
PSIF2	FUSE, 5AMP SB 125 V	512137
PSIF3	FUSE, 2AMP SB125 V	332009
AIFI	FUSE, 1AMP SB 250 V	NOTE 2
	FUSE, 2AMP SB 125 V	NOTE 3
S1&S2	SWITCH,10AMP 125/250V	5252566
T1	FERRO, 50 HZ	4119272

EC HISTORY		DRAWING TITLE	
SEE EC	HISTORY	CKT DIAG 19C DISPL UNIT 50HZ	
16 JUL 79	739021	MACH	
3 FEB 75	741722	PART NO 2481236	
D		CLASSIFICATION	IBM CORP

12-16 KV/300-400 VOLT POWER SUPPLY
REFERENCE DWG



COMPONENT CHART		
LCODE	DESCRIPTION	PART NO.
A1	CONVERTER	2582937
A2	CARD ASM	2582934
A3	COVER/HEAT SINK	2611058

NOTE:

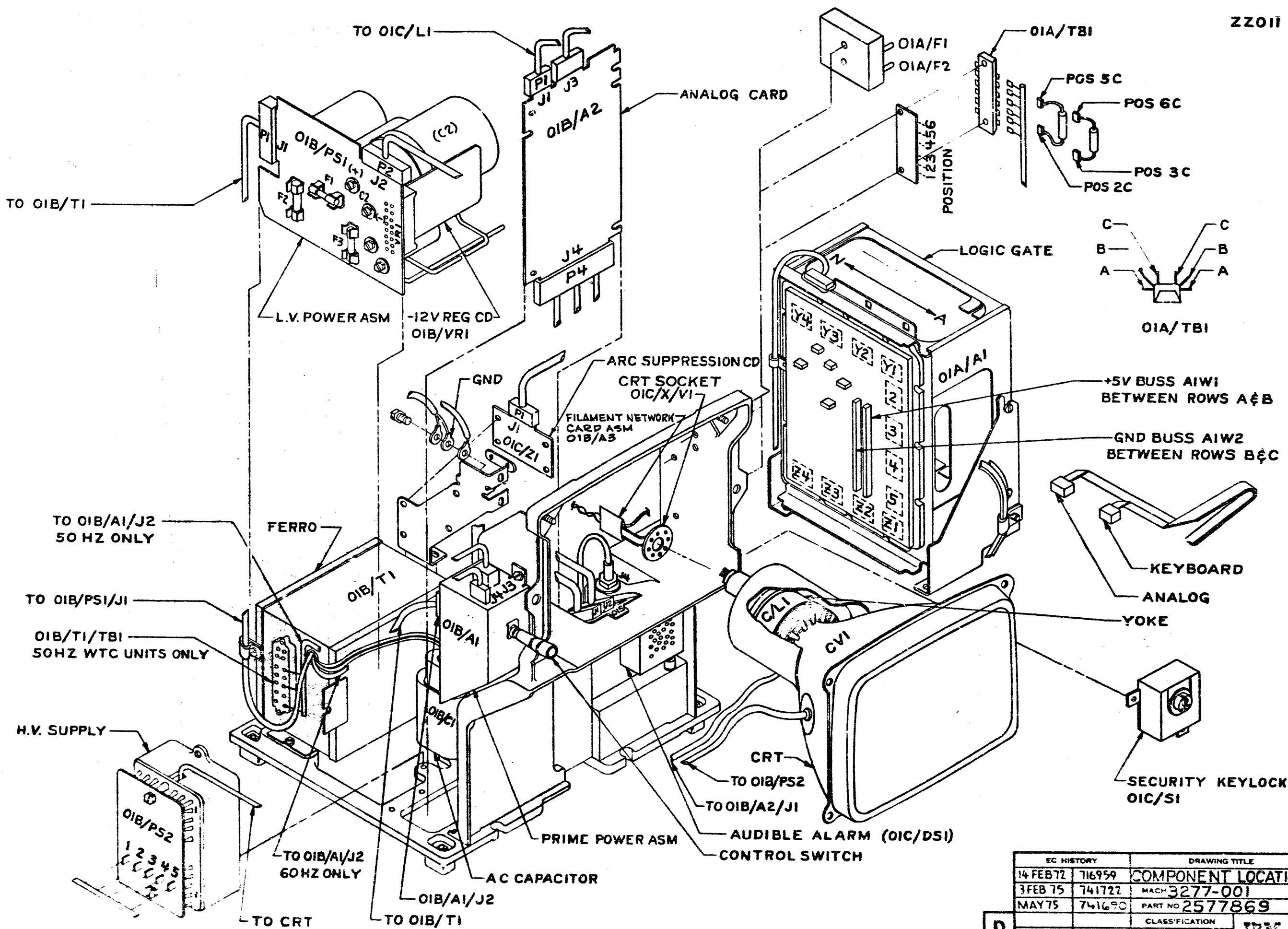
- ☒ THIS SUPPLY IS NOT TO BE REPAIRED IN THE FIELD
- ☒ EXTERNAL SUPPRESSION NETWORKS MUST BE PROVIDED BY USER TO PREVENT SUPPLY DAMAGE IN CASE OF THE LOAD (CRT) ARCING BETWEEN THE HIGH & LOW VOLTAGE LEVELS

XII P1 - HIGH VOLTAGE ADJUSTMENT (12-16 KV)
- DO NOT FIELD AJUST.
P2-EG4 VOLTAGE ADJUSTMENT (0-300/400V)
- FOCUS ADJUSTMENT.

**XIII OUTPUT RETURN PATH IS THRU CHASSIS OF SUPPLY
CONVERTER CASE MUST BE GROUNDED**

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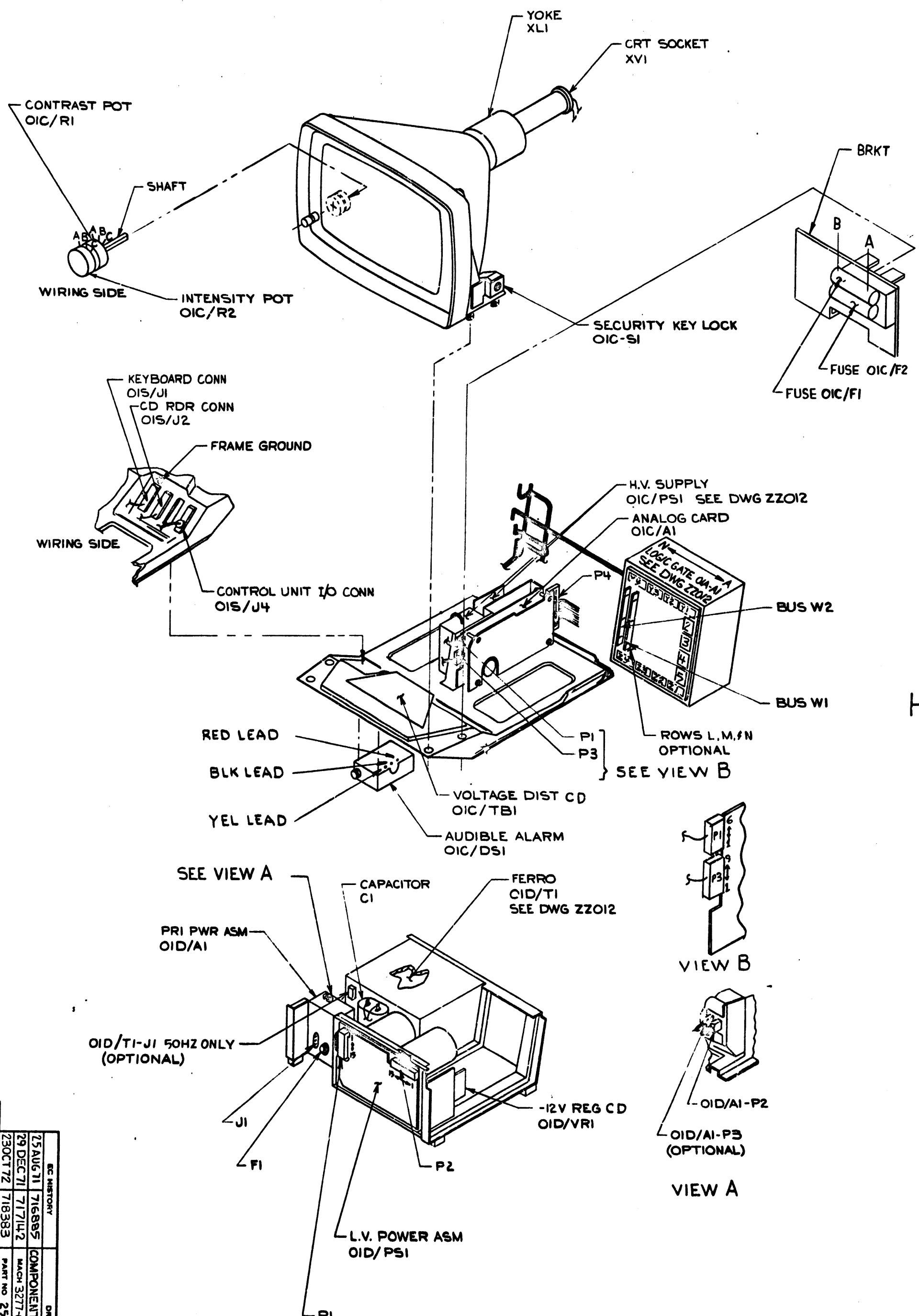
RELEASED FOR ASM 2611025(REF.)			
SEE	EC HISTORY	DRAWING TITLE	
3 OCT 77	718306	SYSTEMS DIAGRAM	
29 OCT 77	718307	MACH	
11 JAN 78	738051	PART NO	2611043
		CLASSIFICATION	
		0-1043	
		IBM CORP	



EC HISTORY		DRAWING TITLE	
14 FEB 72	716959	COMPONENT LOCATION	
3 FEB 75	741722	MACH 3277-001	
MAY 75	741690	PART NO 2577869	
		CLASSIFICATION	IBM CORP

D

ZZ011



FOR 3277-002 ONLY

EC HISTORY		DRAWING TITLE
75AUG71	716885	COMPONENT LOCATION
29DEC71	717142	MACH 3277-C02
23OCT72	718383	PART NO 2564995
3FEB75	741722	CLASSIFICATION
		IBM corp

REFERENCE DRAWING

TABLE 1

CHARACTER GENERATOR CARD

THE FOLLOWING LIST DESCRIBES THE PART NUMBER CARD TO BE IN THE A-AI K2 CARD SOCKET DEPENDING ON THE FEATURE OR RPQ REQUIRED:

MACHINE TYPE	LANGUAGE	CARD TYPE	LATEST P/N(852)	EQUIVALENT P/N (852)
MOD I MONO CASE	U.S. ENGLISH	9058	4302	0576
	USAC II A	9103	4305	0584
	USAC II B	9104	4306	0585
	U.K. ENGLISH	9102	4304	0583
	GERMAN	9101	4303	0582
	SWD/ FIN	W068	4307	1455
	NOR/ DEN	W069	4308	1456
	SPANISH	W070	4309	1457
	PORT/ BRAZIL	W072	4311	1459
MOD II MONO CASE	U.S. ENGLISH	9070	4289	0577
	USAC II A	9098	4292	0580
	USAC II B	9099	4293	0581
	U.K. ENGLISH	9097	4291	0579
	GERMAN	9096	4290	0578
	SWD/ FIN	W075	4294	1462
	NOR/ DEN	W076	4295	1463
	SPANISH	W077	4296	1464
	PORT/ BRAZIL	W079	4298	1466
MOD I & II DUAL CASE	U.S. ENGLISH	4710	1708	—
	U.K. ENGLISH	4711	1709	—
	KATA KANA	9123	1707	—
	AUS/ GER	4712	1710	—
	BEL/ FRANCE	4713	1711	—
	DEN/ NOR	X415	1854	—
	FIN/ SWD	X416	1855	—
	ITALY	X417	1858	—
	SPANISH	X418	1859	—
	PORT/ BRAZIL	X419	1857	—

NOTES

① THE "LATEST" P/N IS INTERCHANGEABLE FOR THE "EQUIVALENT" P/N, BUT THE "EQUIVALENT" IS NOT INTERCHANGEABLE FOR THE "LATEST"
 ② EQUIVALENT PART NO. ARE INTERCHANGEABLE

TABLE 2

INTERCHANGEABLE CARDS

THE FOLLOWING CARDS CAN BE USED INTERCHANGEABLY ONLY THE LATEST P/N IS SHOWN IN THE LOGIC. THESE CARDS ARE IDENTICAL IN LOGIC

TYPE NO.	LATEST P/N	EQUIVALENT P/N	EQUIVALENT P/N
9067	8522836	8522014	—
9068	8523664	8522151	8522109
L514	8527302	8522013	—
9069	8524282	8522852	—
9069	—	8524282	8523647
9072	8527296	8522001	—
9072	8527296	8523633	8523616
9066	8523648	8521992	—
9071	8524604	8523649	—
9071	8524604	8523617	—
9071	8524604	8522825	8521981

NOTE ①
NOTES ① & ②
NOTE ①
NOTE ①
NOTE ②
NOTE ①
NOTE ②
NOTE ①
NOTE ①
NOTE ①
NOTES ① & ②

TABLE 3

KEYBOARD FEATURE JUMPER

THE FOLLOWING LIST DESCRIBES THE JUMPERS REQUIRED ON THE A-AI BOARD DEPENDING ON THE PARTICULAR KEYBOARD CONFIGURATION. THESE JUMPERS ARE NO. 30 BLACK WIRE (P/N 811695)

FEATURE NAME	FEATURE B/M	JUMPER REQUIRED
KATAKANA LANG	2568804	ADD A2B06 TO A2D08 B4B13 TO B3D08
NUMERIC LOCK FOR: U.S. ENGLISH U.K. ENGLISH KATAKANA	2568694	ADD B4B12 TO B4D08 REMOVE (IF IN)- B5B03 TO B5D08
NUMERIC LOCK FOR: GERMAN FRENCH ITALIAN	2568696	ADD B4B12 TO B4D08 B5B03 TO B5D08

CARD READER FEATURE JUMPERS

[FEATURE NO. 4600 WITH 2706]

IF A CARD READER IS INSTALLED IN A MACHINE WITH THE KATAKANA LANGUAGE FEATURE, A JUMPER IS REQUIRED ON THE A-AI BOARD BETWEEN N2D05 AND N3B05 USING NO. 30 BLACK WIRE (P/N 811695)

[FEATURE NO. 4600 IN ANY 3277 MACHINE]

IF A CARD READER IS INSTALLED IN ANY 3277 MACHINE, A RESISTOR ASM. P/N 2568741 IS REQUIRED ON THE A-AI BOARD BETWEEN N2D03 AND N2J06

EC HISTORY		DRAWING TITLE	
JUL74	740362	3277 MOD I & 2 FEATURE	
JAN75	741246	MACH 3277	
MAR75	741258	PART NO. 1564641	
D		CLASSIFICATION	
		IBM CORP	